

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 27, 2005, 20:02:49 ; Search time 115.869 Seconds
(without alignment)
1387.712 Million cell updates/sec

Title: US-10-040-647-6

Perfect score: 1728

Sequence: 1 MGARGALLALLARAGLRK.....PSWPLLPFLNALPLPGPV 314

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : UniProt_03.*

1: uniprot_sprot.*

2: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1723	99.7	314	1	TEST_HUMAN	Q9y6m0 homo sapien
2	1152	66.7	324	1	TEST_MOUSE	Q9jhj7 mus musculu
3	1152	66.7	336	2	Q80YD8	Q80ydh8 mus musculu
4	1128.5	65.3	328	2	Q80Z40	Q80z40 rattus norv
5	881	51.0	318	2	Q7RTY9	Q7rtv9 homo sapien
6	850	49.2	322	2	Q920S2	Q920s2 mus musculu
7	817	47.3	282	2	Q2D413	Q2d413 mus musculu
8	605	35.0	328	2	Q6BEA2	Q6bea2 rattus norv
9	597.5	34.6	321	2	Q6IE60	Q6ie60 rattus norv
10	596.5	34.5	321	1	TRYG_HUMAN	Q9nrr2 homo sapien
11	595.5	34.5	321	2	Q96R28	Q96rz8 homo sapien
12	586	33.9	719	2	Q6DJ90	Q6dj90 xenopus tro
13	585	33.9	328	2	Q8BJR6	Q8bjr6 mus musculu
14	579.5	33.5	343	1	PS58_HUMAN	Q16651 homo sapien
15	575.5	33.3	389	2	Q9PVX7	Q9pvx7 xenopus lae
16	573	33.2	290	1	PR27_HUMAN	Q9bqr3 homo sapien
17	572.5	33.1	311	2	Q80XZ3	Q80xz3 rattus norv
18	570	33.0	330	2	Q5NVZ7	Q5nvz7 xenopus tro
19	567.5	32.8	339	2	Q93L44	Q93l44 mus musculu
20	567.5	32.8	342	1	PS58_RAT	Q9es87 rattus norv
21	566.5	32.8	331	2	Q9RIA6	Q9ria6 mus musculu
22	566	32.8	344	2	Q640F8	Q640f8 xenopus lae
23	565	32.7	321	2	Q6GNK3	Q6gnk3 xenopus lae
24	563.5	32.6	331	2	Q80X17	Q80x17 mus musculu
25	563.5	32.6	342	1	PS58_MOUSE	Q9sdl1 mus musculu
26	561	32.5	317	2	Q9DGR3	Q9dgr3 xenopus lae
27	554.5	32.1	311	1	TRYG_MOUSE	Q9qlu7 mus musculu
28	552	31.9	340	2	Q8BJV6	Q8bjv6 mus musculu
29	551	31.9	336	2	Q7RTY5	Q7rtv5 homo sapien
30	546.5	31.6	312	2	Q7M755	Q7m755 mus musculu
31	542	31.4	799	2	Q6PF94	Q6pf94 mus musculu

32	542	31.4	811	1	TMS6_MOUSE	Q9dbi0 mus musculu
33	541.5	31.3	309	2	Q6DHH4	Q6dhh4 brachydanio
34	539.5	31.2	307	2	Q7TML0	Q7tml0 mus musculu
35	539	31.2	273	1	TRYT_SHEEP	Q9xsm2 ovis aries
36	538.5	31.2	297	2	Q88781	Q88781 rattus ratt
37	536.5	31.0	317	1	BSS4_HUMAN	Q9gzn4 homo sapien
38	536.5	31.0	334	2	Q6UXE0	Q6uxe0 homo sapien
39	527.5	30.5	310	1	DISP_MOUSE	Q9gyz9 mus musculu
40	525	30.4	306	1	BSS4_MOUSE	Q9er10 mus musculu
41	523.5	30.3	270	1	TRYT_MERUN	P50342 meriones un
42	517.5	29.9	471	2	Q8CFE0	Q8cfe0 mus musculu
43	517	29.9	273	2	Q9XSM1	Q9xsm1 ovis aries
44	517	29.9	275	1	TRYT_PIG	Q9nzd1 sus scrofa
45	513.5	29.7	638	1	KAL_MOUSE	P26262 mus musculu

ALIGNMENTS

RESULT 1
TEST_HUMAN
ID TEST_HUMAN STANDARD; PRT; 314 AA.
AC Q9Y6M0; Q9NS34; Q9P2V6;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 25-OCT-2004 (Rel. 45, Last annotation update)
DE Testisin precursor (EC 3.4.21.-) (Eosinophil serine protease 1) (ESP-1) (UNQ266/PRO303).
GN Name=PRSS21; Synonyms=ESPI, TEST1;
OS Homo sapiens (Human)
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A. (ISOFORM 1).
RC TISSUE=Eosinophil;
RX MEDLINE=95045401; PubMed=9826525; DOI=10.1006/bbrc.1998.9645;
RA Inoue M., Kanbe N., Kurosawa M., Kido H.;
RT "Cloning and tissue distribution of a novel serine protease esp-1 from human eosinophils";
RL Biochem. Biophys. Res. Commun. 252:307-312(1998).
RN [2]
RP SEQUENCE FROM N.A. (ISOFORM 3).
RX MEDLINE=20068805; PubMed=10600542; DOI=10.1006/bbrc.1999.1870;
RA Inoue M., Isobe M., Itoyama T., Kido H.;
RT "Structural analysis of esp-1 gene (PRSS 21).";
RL Biochem. Biophys. Res. Commun. 266:564-568(1999).
RN [3]
RP SEQUENCE FROM N.A. (ISOFORMS 1 AND 2).
RC TISSUE=Cervical carcinoma;
RX MEDLINE=99323395; PubMed=10397266;
RA Hooper J.D., Nicol D.L., Dickinson J.L., Eyre H.J., Scarman A.L., Normyle J.F., Stuttgen M.A., Douglas M.L., Loveland K.A., Sutherland G.R., Antal T.M.;
RT "Testisin, a new human serine proteinase expressed by premalignant testicular germ cells and lost in testicular germ cell tumors";
RL Cancer Res. 59:3199-3205(1999).
RN [4]
RP SEQUENCE FROM N.A.
RX MEDLINE=10044760; PubMed=11004480; DOI=10.1016/S0167-4781(00)00071-3;
RA Hooper J.D., Bowen N., Marshall H., Cullen L.M., Sood R., Daniels R., Stuttgen M.A., Normyle J.F., Higgs D.R., Kastner D.L., Ogbourne S.M., Pera M.F., Jazwinska E.C., Antal T.M.;
RT "Localization, expression and genomic structure of the gene encoding the human serine protease testisin";
RL Biochim. Biophys. Acta 1492:63-71(2000).
RN [5]
RP SEQUENCE FROM N.A. (ISOFORM 1).
RX MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;
RA Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Brush J., Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P., Eaton D., Foster J., Grimaldi C., Gu Q., Hass P.E., Heidens S., Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,

RA Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,
 RA Seehagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,
 RA Vandlen R., Watanabe C., Wieand D., Woods K., Xie M.-H., Yansura D.,
 RA Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,
 RA Godowski P., Gray A.;
 RT "The secreted protein discovery initiative (SPDI), a large-scale
 RT effort to identify novel human secreted and transmembrane proteins: a
 RL Genome Res. 13:2265-2270(2003).
 CC -1- FUNCTION: Could regulate proteolytic events associated with
 CC testicular germ cell maturation.
 CC -1- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor
 CC (Potential).
 CC -1- ALTERNATIVE PRODUCTS:
 CC Event=Alternative splicing; Named isoforms=3;
 CC Name=1; Synonyms=L;
 CC IsoId=Q9Y6M0-1; Sequence=Displayed;
 CC Name=2; Synonyms=S;
 CC IsoId=Q9Y6M0-2; Sequence=VSP_005389;
 CC Name=3;
 CC IsoId=Q9Y6M0-3; Sequence=VSP_005390;
 CC -1- TISSUE SPECIFICITY: Expressed predominantly in premeiotic
 CC testicular germ cells, mostly late pachytene and diplotene
 CC spermatocytes.
 CC -1- SIMILARITY: Belongs to the peptidase S1 family.
 CC -----
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 CC -----
 CC EMBL; AF058300; AAD41588.1; -
 CC EMBL; AB031329; BAA83520.1; -
 CC EMBL; AB031330; BAA83521.1; -
 CC EMBL; AB031331; BAA89532.1; -
 CC EMBL; AF058301; AAF79019.1; -
 CC EMBL; AF058301; AAF79020.1; -
 CC EMBL; AY359034; AAQ89393.1; -
 CC HSP; P00734; LGHW.
 CC MEROPS; S01.011; -
 CC Genew; HGNC:9485; PRSS21.
 CC MTM; 608159; -
 CC GO; GO:0005737; Cytoplasm; TAS.
 CC GO; GO:0005624; C-membrane fraction; TAS.
 CC GO; GO:0005886; C:plasma membrane; TAS.
 CC GO; GO:0008236; F:serine-type peptidase activity; TAS.
 CC InterPro; IPR009003; Pept_Ser_Cys.
 CC InterPro; IPR001254; Peptidase_S1.
 CC InterPro; IPR001314; Peptidase_S1A.
 CC Pfam; PF00089; Trypsin; 1.
 CC PRINTS; PR00722; CHYMOTRYPSIN.
 CC PROSITE; PS0240; TRYPSIN_DOM; 1.
 CC PROSITE; PS00134; TRYPSIN_HIS; 1.
 CC PROSITE; PS00135; TRYPSIN_SER; 1.
 KW Alternative splicing; Glycoprotein; GPI-anchor; Hydrolase;
 KW Lipoprotein; Serine protease; Signal; Zymogen.
 FT SIGNAL 1 19 Potential.
 FT PROPEP 20 41 Potential.
 FT CHAIN 42 288 Testisin.
 FT PROPEP 289 314 Removed in mature form (Potential).
 FT ACT_SITE 82 82 Charge relay system (Potential).
 FT ACT_SITE 137 137 Charge relay system (Potential).
 FT ACT_SITE 238 238 Charge relay system (Potential).
 FT DISULFID 33 157 Potential.
 FT DISULFID 67 83 Potential.
 FT DISULFID 171 244 Potential.
 FT DISULFID 204 223 Potential.
 FT DISULFID 234 262 Potential.
 FT LIPID 288 288 GPI-anchor amidated serine (Potential).
 FT CARBOHYD 167 167 N-linked (GlcNAc..) (Potential).

FT CARBOHYD 200 200 N-linked (GlcNAc..) (Potential).
 FT CARBOHYD 273 273 N-linked (GlcNAc..) (Potential).
 FT VARSPLIC 87 88 Missing (in isoform 2).
 FT VARSPLIC 222 235 Missing (in isoform 3).
 FT FTId=VSP_005390.
 FT FTId=VSP_005390.
 SQ SEQUENCE 314 AA; 34884 MW; E738CF73F6B56E98 CRC64;
 Query Match 99.7%; Score 1723; DB 1; Length 314;
 Best Local Similarity 99.7%; Pred. No. 1.8e-145;
 Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MGARGALLALLARAGLRKPKSQEAAPLSGCGRRVITSRIVGSDAEELGRWPWQSLR 60
 DB 1 MGARGALLALLARAGLRKPKSQEAAPLSGCGRRVITSRIVGSDAEELGRWPWQSLR 60
 QY 61 LWDSHVCGVSLLSHRWALTAACHFCFETYSDDLSPSGMWVQFGLTSPSPWLSQAYTRYF 120
 DB 61 LWDSHVCGVSLLSHRWALTAACHFCFETYSDDLSPSGMWVQFGLTSPSPWLSQAYTRYF 120
 QY 121 VSNYILSPRYLGNSPYDIALVKLSAPVYTKHQPICLQASTFEFENRTDCWVTGWGIK 180
 DB 121 VSNYILSPRYLGNSPYDIALVKLSAPVYTKHQPICLQASTFEFENRTDCWVTGWGIK 180
 QY 181 EDEALSPHTLQEVQVAIINNSMCNHLFLKYSRDKIFGDMVCAGNAQGGKDACFGDSGG 240
 DB 181 EDEALSPHTLQEVQVAIINNSMCNHLFLKYSRDKIFGDMVCAGNAQGGKDACFGDSGG 240
 QY 241 PLACNKGWLYQIGVSVGWGCGRRPGRPGVYTNISHFEWIKLMAQSGMSQDPDPWPL 300
 DB 241 PLACNKGWLYQIGVSVGWGCGRRPGRPGVYTNISHFEWIKLMAQSGMSQDPDPWPL 300
 QY 301 FFPLLWALPLLPV 314
 DB 301 FFPLLWALPLLPV 314
 RESULT 2
 TEST MOUSE
 ID TEST MOUSE STANDARD; PRT; 324 AA.
 AC Q9THJ7; Q9DA14;
 DT 16-OCT-2001 (Rel. 40, Created)
 DT 16-OCT-2001 (Rel. 40, Last sequence update)
 DT 23-OCT-2004 (Rel. 45, Last annotation update)
 DE Testisin precursor (EC 3.4.21.-) (Trypsinase 4).
 GN Names:Prss21;
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=129/SV;
 RC MEDLINE=21153229; PubMed=11231276;
 RX Scarm A.L., Hooper J.D., Boucaut K.J., Sit M.-L., Webb G.C.,
 RA Normyle J.F., Antalis T.M.;
 RA "Organization and chromosomal localization of the murine Testisin gene
 RT encoding a serine protease temporally expressed during
 RT spermatogenesis.";
 RL Eur. J. Biochem. 268:1250-1258(2001).
 RN [2]
 RN SEQUENCE FROM N.A.
 RC STRAIN=BALB/c; TISSUE=Testis;
 RX PubMed=11259427; DOI=10.1074/jbc.M01042200;
 RA Wong G.W., Li L., Madhusudan M.S., Krilis S.A., Gurish M.F.,
 RA Rothenberg M.E., Sali A., Stevens R.L.;
 RT "Trypsinase 4, a new member of the chromosome 17 family of mouse serine
 RT proteases.";
 RL J. Biol. Chem. 276:20648-20658(2001).
 RN [3]
 RN SEQUENCE OF 3-324 FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Testis;
 RX MEDLINE=22354683; PubMed=12466851; DOI=10.1038/nature01266;
 RX

Okazaki Y., Furuno M., Kasukawa T., Adachi J., Bono H., Kondo S.,
 Nikaide I., Oshio N., Saito K., Suzuki H., Yamanaka I., Kiyosawa H.,
 Yagi K., Tomaru Y., Hasegawa Y., Nogami A., Schonbach C., Gojohori T.,
 Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J.,
 Schriml L.M., Kanapin A., Matsuda H., Batalov S., Beisel K.W.,
 Blake J.A., Bradt D., Brusic V., Chochia C., Corbani L.E., Cousins S.,
 Dalla E., Dragani T.A., Fletcher C.P., Forrest A., Frazer K.S.,
 Gaasterland T., Gariboldi M., Giesi C., Godzik A., Gough J.,
 Grimmond S., Guentrich S., Hirokawa N., Jackson I.J., Jarvis E.D.,
 Kanai A., Kawaji H., Kawasawa Y., Kedzierski R.M., King B.L.,
 Konagaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,
 Maglott D.R., Nakais L., Marchionni L., McKenzie L., Miki H.,
 Negashima T., Numa K., Okido T., Pavan W.J., Perte G., Pesole G.,
 Pavlovsky N., Pillai R., Pontius J.U., Qi D., Ramachandran S.,
 Ravitsky T., Reed J.C., Reed D.J., Reid J., Ring B.Z., Ringwald M.,
 Sandelin A., Schneider C., Semple C.A., Setou M., Shimada K.,
 Sultana R., Takenaka Y., Taylor M.S., Teasdale R.D., Tomita M.,
 Verardo R., Wagner L., Walstedt C., Wang Y., Watanabe Y., Wells C.,
 Wilming L.G., Wynshaw-Boris A., Yangisawa M., Yang I., Yang L.,
 Yuan Z., Zavolan M., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,
 Hirozane-Kishikawa T., Konno H., Nakamura M., Sakazume N., Sato K.,
 Shiraki T., Waki K., Kawai J., Aizawa K., Arakawa T., Fukuda S.,
 Hara A., Hashizume W., Imotani K., Ishii Y., Itoh M., Kagawa I.,
 Miyazaki A., Sakai K., Sasaki D., Shibata K., Shinagawa A.,
 Yasunishi A., Yoshino M., Waterston R., Lander E.S., Rogers J.,
 Birney E., Hayaishizaki Y.,
 "Analysis of the mouse transcriptome based on functional annotation of
 60,770 full-length cDNAs";
 Nature 420:563-573(2002).
 CC -1- FUNCTION: Could regulate proteolytic events associated with
 testicular germ cell maturation.
 CC -1- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor
 (Potential).
 CC -1- TISSUE SPECIFICITY: Testis.
 CC -1- DEVELOPMENTAL STAGE: Expressed in post-meiotic testicular germ
 cells.
 CC -1- SIMILARITY: Belongs to the peptidase S1 family.
 CC -1- CAUTION: Ref.3 sequence differs from that shown due to a stop
 codon in position 315.
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 or send an email to license@isb-sib.ch).
 CC -----
 DR EMBL; AF304012; AAK29360.1; -;
 DR EMBL; AY005145; AAG02255.1; -;
 DR EMBL; AF176209; AAF64407.2; -;
 DR EMBL; AF226710; AAF64428.2; -;
 DR EMBL; AK006271; -; NOT_ANNOTATED_CDS.
 DR HSPSP; P00734; 1GHW.
 DR MEROPS; S01.011; -;
 DR MGD; MGI:1916698; Prss21.
 DR GO; GO:0005624; C:membrane fraction; IDA.
 DR GO; GO:0004252; F:serine-type endopeptidase activity; IDA.
 DR InterPro; IPR009003; Pept_Ser_Cys.
 DR InterPro; IPR001254; Peptidase_S1.
 DR InterPro; IPR001314; Peptidase_S1A.
 DR Pfam; PF00089; Trypsin; 1.
 DR PRINTS; PR00722; CHYMOTRYPSIN.
 DR PROSITE; PS50240; TRYPSIN_DOM; 1.
 DR PROSITE; PS00134; TRYPSIN_HIS; 1.
 DR PROSITE; PS00135; TRYPSIN_SER; 1.
 KW Glycoprotein; GPI-anchor; Hydrolase; Lipoprotein; Serine protease;
 KW Signal; Zymogen.
 FT SIGNAL 1 21 Potential.
 FT PROPEP 22 54 Potential.
 FT CHAIN 55 298 Testisin.
 FT PROPEP 299 324 Removed in mature form (Potential).
 FT ACT_SITE 95 95 Charge relay system (Potential).

FT	ACT_SITE	147	147	Charge relay system (Potential).
FT	ACT_SITE	248	248	Charge relay system (Potential).
FT	DISULFID	46	167	Potential.
FT	DISULFID	80	96	Potential.
FT	DISULFID	181	254	Potential.
FT	DISULFID	214	233	Potential.
FT	DISULFID	244	272	Potential.
FT	LIPID	298	298	GPI-anchor amidated asparagine (Potential).
FT	CARBOHYD	170	170	N-linked (GlcNAc. . .) (Potential).
FT	CARBOHYD	177	177	N-linked (GlcNAc. . .) (Potential).
FT	CARBOHYD	210	210	N-linked (GlcNAc. . .) (Potential).
FT	CARBOHYD	283	283	N-linked (GlcNAc. . .) (Potential).
FT	CONFLICT	275	275	P -> H (in Ref. 3).
SQ	SEQUENCE	324 AA;	36175 MW;	56DCS9B84F3C3CD4 CRC64;

Query Match 66.7%; Score 1152; DB 1; Length 324;
 Best Local Similarity 65.0%; Pred. No. 1.9e-94;
 Matches 212; Conservative 38; Mismatches 60; Indels 16; Gaps 4;

Qy	1	MGARGALLALL--LARAGL-----	-----RKPEQEAAPLSPGCGRRVITSRIGGED	47
Db	1	MGARGKTLVLLVVVATAAALQSTYLQVDPKPELQEPDL	LLSGCGHRTIPSRIVGDD	60
Qy	48	AEIGRWPMQCSRLWDSHVCVSLLSHRWALTAACFETYS	DLSDPSGVMVQFQLTSM	107
Db	61	AEIGRWPMQCSRLWGNHLCATLLNRRVLTAAHCFQ--	---KD-NDPFDWTQFGLTSRP	117
Qy	108	SFWSLQAYTYRYFVSNLYLSPRYLGNSPYDIALVKLS	APVTYTKHIQICLOASTFEFEN	167
Db	118	SLNLQAYSNRYQIEDIFLSPKSEYQPNDAIKLS	SPYNNFIQICLLNSTYKFN	177
Qy	168	RTDCWVTGWGVIKEDALPSPHLTQEVQVQVVAI	INNSMCHLFLKYSFRKIDFGDMVCAGNA	227
Db	178	RTDCWVTGWGAIGEDSLSPNTLQEVQVQVVAI	INNSMCHMKYKKPDFRTINWDMVCAGTP	237
Qy	228	QGGKDCFCGSGGGLACNKGDLWYQICVWSGVCGR	PNRPGVYTNISHFEWTKLMAQ	287
Db	238	EGGKDCFCGSGGGLACDQDTVMYQVGVSWGIG	CGRPNRPGVYTNISHYNNIQSTMIR	297
Qy	288	SGMSQDPSPWPLFFFLPLLWALPLGP	313	
Db	298	NGLLRDPDPVPLLFLTLAWASSLLRP	323	

RESULT 3
 Q80YD8 PRELIMINARY; PRT; 336 AA.
 ID Q80YD8
 AC Q80YD8;
 DT 01-JUN-2003 (TrEMBLrel. 24, Created)
 DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
 DE 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
 DE Prss21 protein (Fragment).
 GN Name=Prss21;
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Testis;
 RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.2426038999;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Haieh F.,
 Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
 Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
 Villaillon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

RA Fahey J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Smalusz D.E., Scherch A., Schein J.E.,
RA Jones S.J., Maira M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RA Strausberg R.;
RL Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
CC -1- SIMILARITY: Belongs to peptidase family S1.
DR EMBL; BC049588; AAH49588.1; -;
DR HSSP; P00766; 1CHG;
DR MGD; MGI:191698; Prss1.
DR GO; GO:0005615; C:extracellular space; TAS.
DR GO; GO:0005624; C:membrane fraction; IDA.
DR GO; GO:0004252; F:serine-type endopeptidase activity; IDA.
DR GO; GO:0007283; P:sermatogenesis; TAS.
DR InterPro; IPR001254; Peptidase_S1.
DR InterPro; IPR001314; Peptidase_S1A.
DR InterPro; IPR009003; Pept_Ser_Cys.
DR Pfam; PF00089; Trypsin; 1.
DR PRINTS; PR00722; CHYMOTRYPSIN.
DR SMART; SM00020; Tryp_SPC; 1.
DR PROSITE; PS02040; TRYPSIN_DOM; 1.
DR PROSITE; PS00134; TRYPSIN_HIS; UNKNOWN_1.
DR PROSITE; PS00135; TRYPSIN_SER; 1.
KW Hydrolase; Protease; Serine protease.
FT NON TER 1
SQ SEQUENCE 336 AA; 37361 MW; E5206FEDBE55C670 CRC64;

Query Match 66.7%; Score 1152; DB 2; Length 336;
Best Local Similarity 65.0%; Pred. No. 1.9e-94;
Matches 212; Conservative 38; Mismatches 60; Indels 16; Gaps 4;

QY 1 MGARGALLALL--LARAGL-----RKPESEAAAPLSPGCGRRVITSRIVG 47
DB 13 MGARGKTLVPLVVAVATAMALQTYIQVDPKPELQDPDLLSGPCGHRTPISRI 72
QY 48 AELGRWPQGSRLWDHSHVGVLSLHSHRWALTAHCFETYSDLSDPGMMVQFGQLTSM 107
DB 73 AELGRWPQGSRLVWGNHLCATLLNRRWLTAHCFQ--KD-NDPFDWTVQFGELTSR 129
QY 108 SFWSLQAYTRYFVSNYILSPRYLGNSPYDIALVKLSAPVYTKHIQPICLQASTFE 167
DB 130 SLNWLQAYSNNRYQIEDIFLSPKYSQEQYENDIALKLSPPVYNNFIQPICLLNSTYKF 189
QY 168 RTDCWVTGWGVIKEDALPSPHTLQEVQVVAIINNSMCHLFLKYSRKDFGDMVCAG 227
DB 190 RTDCWVTGWGAIKEDALPSPHTLQEVQVVAIINNSMCHLFLKYSRKDFGDMVCAG 249
QY 228 QGKDKACFGSGGLACNKGDLWYQIGVSWGVCGRPNRPVYTNISHHFEWIKLMAQ 287
DB 250 EGGKDKACFGSGGLACDQDTWYQVGVSWGIGCGRPNRPVYTNISHHYNWIKMTIR 309
QY 288 SGMSQDPSPWPLFFPLLLWALPLGP 313
DB 310 NGLLRDPDPVPLLLFLTLAWASSLLRP 335

RESULT 4
Q80240 ID Q80240 PRELIMINARY; PRT; 328 AA.
AC Q80240;
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Eosinophil serine protease-1.
QW Name=resp-1;

OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Sprague-Dawley; TISSUE=Testis;
RA Nakamura Y., Inoue M., Okumura Y., Shiota M., Nishikawa M., Arase S.,
RA Kido H.;
RT "Cloning, expression analysis, and tissue distribution of esp-
RT 1/testisin, a membrane-type serine protease from the rat.";
RL J. Med. Invest. 50:78-86(2003).
CC -1- SIMILARITY: Belongs to peptidase family S1.
DR EMBL; AB074516; BAC57949.1; -;
DR HSSP; P00766; 1CHG;
DR MEROPS; S01.011; -;
DR GO; GO:0004263; F:chymotrypsin activity; IEA.
DR GO; GO:0008233; F:peptidase activity; IEA.
DR GO; GO:0004295; F:trypsin activity; IEA.
DR GO; GO:0006508; P:proteolysis and peptidolysis; IEA.
DR InterPro; IPR001254; Peptidase_S1.
DR InterPro; IPR001314; Peptidase_S1A.
DR InterPro; IPR009003; Pept_Ser_Cys.
DR Pfam; PF00089; Trypsin; 1.
DR PRINTS; PR00722; CHYMOTRYPSIN.
DR SMART; SM00020; Tryp_SPC; 1.
DR PROSITE; PS02040; TRYPSIN_DOM; 1.
DR PROSITE; PS00134; TRYPSIN_HIS; UNKNOWN_1.
DR PROSITE; PS00135; TRYPSIN_SER; 1.
KW Hydrolase; Protease; Serine protease.
SQ SEQUENCE 328 AA; 36631 MW; 7F6C0B204802B963 CRC64;

Query Match 65.3%; Score 1128.5; DB 2; Length 328;
Best Local Similarity 63.5%; Pred. No. 2.4e-92;
Matches 205; Conservative 40; Mismatches 59; Indels 19; Gaps 3;

QY 1 MGARGALLALLARAGL-----RKPESEAAAPLSPGCGRRVITSRIVG 44
DB 1 MSARGKTLVPLVVAVVEVTLQSTSSHVKVPDPKPELQEANLLSGPCGHRTPISRI 60
QY 45 GEDAEELGRWPQGSRLWDHSHVGVLSLHSHRWALTAHCFETYSDLSDPGMMVQFGQLT 104
DB 61 GEAEELGRWPQGSRLVWGNHLCATLLNRRWLTAHCFQ--KD-NDPFDWTVQFGELT 117
QY 105 SFWSLQAYTRYFVSNYILSPRYLGNSPYDIALVKLSAPVYTKHIQPICLQASTFE 164
DB 118 SPFSLNWLQAYSNNRYQIEDIFLSPKYTEQFPDIALKLSPPVYNNFIQPICLLNSTYK 177
QY 165 FENRTDCWVTGWGVIKEDALPSPHTLQEVQVVAIINNSMCHLFLKYSRKDFGDMVCA 224
DB 178 FANRTDCWVTGWGAIKEDALPSPHTLQEVQVVAIINNSMCHLFLKYPDFRINIGDMVCA 237
QY 225 GNAQGGKDKACFGSGGLACNKGDLWYQIGVSWGVCGRPNRPVYTNISHHFEWIKL 284
DB 238 GSPEGKDKACFGSGGLACDQDTWYQVGVSWGIGCGRPNRPVYTNISHHYNWIRLT 297
QY 285 MAQSGMSQDPSPWPLFFPLLLWA 307
DB 298 MIRNGMLRDPAPLPLLLFLTLAWA 320

RESULT 5
Q7RTY9 ID Q7RTY9 PRELIMINARY; PRT; 318 AA.
AC Q7RTY9;
DT 01-MAR-2004 (TrEMBLrel. 26, Created)
DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Testis serine protease 1 precursor.
GN Name=TESSP1;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

RIKEN PANTOM Consortium;
"Functional annotation of a full-length mouse cDNA collection.";
Nature 409:685-690 (2001).
[3]
SEQUENCE FROM N.A.
STRAIN=C57BL/6J; TISSUE=Testis;
The PANTOM Consortium,
RA the RIKEN Genome Exploration Research Group Phase I & II Team;
RA "Analysis of the mouse transcriptome based on functional annotation of
RT 60,770 full-length cDNAs.";
RT Nature 420:563-573 (2002).
RN [4]
SEQUENCE FROM N.A.
STRAIN=C57BL/6J; TISSUE=Testis;
RC MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;
RX Carninci P., Shibata Y., Hayatsu M., Sugahara Y., Shibata K., Itoh M.,
RA Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.;
RA "Normalization and subtraction of cap-trapper-selected cDNAs to
RT prepare full-length cDNA libraries for rapid discovery of new genes.";
RT Genome Res. 10:1617-1630(2000).
RN [5]
SEQUENCE FROM N.A.
STRAIN=C57BL/6J; TISSUE=Testis;
RC MEDLINE=20530913; PubMed=11075861; DOI=10.1101/gr.152600;
RX Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,
RA Konno H., Akiyama J., Nishi K., Kitsuai T., Tashiro H., Itoh M.,
RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,
RA Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,
RA Fujiwaka S., Inoue K., Togawa Y., Izawa M., Ohara E., Watabiki M.,
RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsura S., Kawai J.,
RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;
RA "RIKEN integrated sequence analysis (RISA) system-384-format
RT sequencing pipeline with 384 multicapillary sequencer.";
RT Genome Res. 10:1757-1771(2000).
RN [6]
SEQUENCE FROM N.A.
STRAIN=C57BL/6J; TISSUE=Testis;
RC MEDLINE=20530913; PubMed=11075861; DOI=10.1101/gr.152600;
RX Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,
RA Konno H., Akiyama J., Nishi K., Kitsuai T., Tashiro H., Itoh M.,
RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,
RA Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,
RA Fujiwaka S., Inoue K., Togawa Y., Izawa M., Ohara E., Watabiki M.,
RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsura S., Kawai J.,
RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;
RA "RIKEN integrated sequence analysis (RISA) system-384-format
RT sequencing pipeline with 384 multicapillary sequencer.";
RT Genome Res. 10:1757-1771(2000).
RN [6]
SEQUENCE FROM N.A.
STRAIN=C57BL/6J; TISSUE=Testis;
RC MEDLINE=20530913; PubMed=11075861; DOI=10.1101/gr.152600;
RX Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,
RA Konno H., Akiyama J., Nishi K., Kitsuai T., Tashiro H., Itoh M.,
RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,
RA Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,
RA Fujiwaka S., Inoue K., Togawa Y., Izawa M., Ohara E., Watabiki M.,
RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsura S., Kawai J.,
RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;
RA "RIKEN integrated sequence analysis (RISA) system-384-format
RT sequencing pipeline with 384 multicapillary sequencer.";
RT Genome Res. 10:1757-1771(2000).
RN [6]
SEQUENCE FROM N.A.
STRAIN=C57BL/6J; TISSUE=Testis;
RC MEDLINE=20530913; PubMed=11075861; DOI=10.1101/gr.152600;
RX Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,
RA Konno H., Akiyama J., Nishi K., Kitsuai T., Tashiro H., Itoh M.,
RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,
RA Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,
RA Fujiwaka S., Inoue K., Togawa Y., Izawa M., Ohara E., Watabiki M.,
RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsura S., Kawai J.,
RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;
RA "RIKEN integrated sequence analysis (RISA) system-384-format
RT sequencing pipeline with 384 multicapillary sequencer.";
RT Genome Res. 10:1757-1771(2000).
RN [6]
SEQUENCE FROM N.A.
STRAIN=C57BL/6J; TISSUE=Testis;
RC MEDLINE=20530913; PubMed=11075861; DOI=10.1101/gr.152600;
RX Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,
RA Konno H., Akiyama J., Nishi K., Kitsuai T., Tashiro H., Itoh M.,
RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,
RA Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,
RA Fujiwaka S., Inoue K., Togawa Y., Izawa M., Ohara E., Watabiki M.,
RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsura S., Kawai J.,
RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;
RA "RIKEN integrated sequence analysis (RISA) system-384-format
RT sequencing pipeline with 384 multicapillary sequencer.";
RT Genome Res. 10:1757-1771(2000).
RN [6]
SEQUENCE FROM N.A.
STRAIN=C57BL/6J; TISSUE=Testis;
RC MEDLINE=20530913; PubMed=11075861; DOI=10.1101/gr.152600;
RX Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,
RA Konno H., Akiyama J., Nishi K., Kitsuai T., Tashiro H., Itoh M.,
RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,
RA Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,
RA Fujiwaka S., Inoue K., Togawa Y., Izawa M., Ohara E., Watabiki M.,
RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsura S., Kawai J.,
RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;
RA "RIKEN integrated sequence analysis (RISA) system-384-format
RT sequencing pipeline with 384 multicapillary sequencer.";
RT Genome Res. 10:1757-1771(2000).
RN [6]
SEQUENCE FROM N.A.
STRAIN=C57BL/6J; TISSUE=Testis;
RC MEDLINE=20530913; PubMed=11075861; DOI=10.1101/gr.152600;
RX Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,
RA Konno H., Akiyama J., Nishi K., Kitsuai T., Tashiro H., Itoh M.,
RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,
RA Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,
RA Fujiwaka S., Inoue K., Togawa Y., Izawa M., Ohara E., Watabiki M.,
RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsura S., Kawai J.,
RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;
RA "RIKEN integrated sequence analysis (RISA) system-384-format
RT sequencing pipeline with 384 multicapillary sequencer.";
RT Genome Res. 10:1757-1771(2000).
RN [6]
SEQUENCE FROM N.A.
STRAIN=C57BL/6J; TISSUE=Testis;
RC MEDLINE=20530913; PubMed=11075861; DOI=10.1101/gr.152600;
RX Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,
RA Konno H., Akiyama J., Nishi K., Kitsuai T., Tashiro H., Itoh M.,
RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,
RA Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,
RA Fujiwaka S., Inoue K., Togawa Y., Izawa M., Ohara E., Watabiki M.,
RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsura S., Kawai J.,
RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;
RA "RIKEN integrated sequence analysis (RISA) system-384-format
RT sequencing pipeline with 384 multicapillary sequencer.";
RT Genome Res. 10:1757-1771(2000).
RN [6]
SEQUENCE FROM N.A.
STRAIN=C57BL/6J; TISSUE=Testis;
RC MEDLINE=20530913; PubMed=11075861; DOI=10.1101/gr.152600;
RX Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,
RA Konno H., Akiyama J., Nishi K., Kitsuai T., Tashiro H., Itoh M.,
RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,
RA Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,
RA Fujiwaka S., Inoue K., Togawa Y., Izawa M., Ohara E., Watabiki M.,
RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsura S., Kawai J.,
RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;
RA "RIKEN integrated sequence analysis (RISA) system-384-format
RT sequencing pipeline with 384 multicapillary sequencer.";
RT Genome Res. 10:1757-1771(2000).
RN [6]
SEQUENCE FROM N.A.
STRAIN=C57BL/6J; TISSUE=Testis;
RC MEDLINE=20530913; PubMed=11075861; DOI=10.1101/gr.152600;
RX Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,
RA Konno H., Akiyama J., Nishi K., Kitsuai T., Tashiro H., Itoh M.,
RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,
RA Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,
RA Fujiwaka S., Inoue K., Togawa Y., Izawa M., Ohara E., Watabiki M.,
RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsura S., Kawai J.,
RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;
RA "RIKEN integrated sequence analysis (RISA) system-384-format
RT sequencing pipeline with 384 multicapillary sequencer.";
RT Genome Res. 10:1757-1771(2000).
RN [6]
SEQUENCE FROM N.A.
STRAIN=C57BL/6J; TISSUE=Testis;
RC MEDLINE=20530913; PubMed=11075861; DOI=10.1101/gr.152600;
RX Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,
RA Konno H., Akiyama J., Nishi K., Kitsuai T., Tashiro H., Itoh M.,
RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,
RA Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,
RA Fujiwaka S., Inoue K., Togawa Y., Izawa M., Ohara E., Watabiki M.,
RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsura S., Kawai J.,
RA Okazaki Y., Muramatsu M., Inoue Y., Kira A

Db 2 PCGRNRDTRSRIVGGISMGQRWPQASLKLKSKHSCGGSLLSRRWVLTAAHCPRKY --- 58

Qy 91 SDPSGWMYVQFGLQTSMPFSWLSQAYTYTRYFVSNYILSPRYLGNPSYDIALVKLSAPVYTY 150

Db 59 LDPEKWTVLQGLTSKPSYNNRKAYSGRYRVKDIIVNSEDKLKS-HDLALLRLASSVTYN 117

Qy 151 KHQIPCLQASTFFENRNTDCWWTGWCYIYKED-EALPSPHTLQEVQVAILNNSMCNHLFL 209

Db 118 KDIOVCVQSPSTFTSQHQRPCWWTGWLQEDLKPLPPYVHLREVQVSLNNSRCQELPFE 177

Qy 210 KYSPEKDFGDMWCAGNAQGGKACFGDSGGLACKNKDGLWYQIGVYVSGVGGCRPNRPG 269

Db 178 IYSLHLHLTKVDFCAGAEADGSDTCSGSGGLVCNNMDGLWYQIGVYVSGVGGCRPNLEP 237

Qy 270 VYTNISHFHEWIKMLAQSGMSQDPSPWPLFFPFLMLWALPLLGP 313

Db 238 IYTNVSHYNNIETNMILINGAVREDLALPLLSITLLQAPWLLRP 281

RESULT 8

Q6BEA2 PRELIMINARY; PRT; 328 AA.

AC Q6BEA2;

DT 25-OCT-2004 (TREMBLrel. 28, Created)

DT 25-OCT-2004 (TREMBLrel. 28, Last sequence update)

DT 25-OCT-2004 (TREMBLrel. 28, Last annotation update)

OS Marapsin.

OS Rattus norvegicus (Rat).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.

ON NCBI_TaxID=10116;

RX [1]

RP SEQUENCE FROM N.A.

RC STRAIN=Wister; TISSUE=Limbic epithelium;

RA Adachi W., Norman B., Davis J., Piatigorsky J.;

RT "Comprehensive analysis of gene expression of rat corneal epithelium and limbic epithelium."

RL Submitted (FEB-2003) to the EMBL/GenBank/DBJ databases.

RC -1- SIMILARITY: Belongs to peptidase family S1.

DR EMBL; AB101677; BAC81507.1; -

DR GO; GO:0004263; F:chymotrypsin activity; IEA.

DR GO; GO:0004295; F:trypsin activity; IEA.

DR GO; GO:0006508; P:proteolysis and peptidolysis; IEA.

DR InterPro; IPR001254; Peptidase S1.

DR InterPro; IPR001314; Peptidase S1A.

DR InterPro; IPR009003; Pept_ser_Cys.

DR Pfam; PF00089; Trypsin_1

DR PRINTS; PR00722; CHYMOTRYPSIN.

DR SMART; SM00020; Tryp_Spc; 1.

DR PROSITE; PS00240; TRYPSIN_DOM; 1.

DR PROSITE; PS00134; TRYPSIN_HIS; UNKNOWN_1.

DR PROSITE; PS00135; TRYPSIN_SER; 1.

KW Hydrolase; Protease; Serine protease.

SQ SEQUENCE 328 AA; 35803 MW; 9235EECAF62C1358 CRC64;

Query Match 35.0%; Score 605; DB 2; Length 328;

Best Local Similarity 43.6%; Pred. No. 1.3e-45;

Matches 137; Conservative 40; Mismatches 99; Indels 38; Gaps 10

Qy 6 ALLLALLARAGLKRPSQENAPLSPGCGRRVITSIRVGGEDALGRWPWQSLRLWDSH 65

Db 8 ALLLLPLLRSGTSGAEMRA-----CGHPRFMNRVMVGGEALGEGWPQVSIQRNGAH 61

Qy 66 VCGVSLLSHRWLTAAHCFFETYSPLSDPSGWMYVQGLTSMPSFSLQ-----AYTRYF 120

Db 62 FCGSGLIAPTWLWTAHCFF-----SNTDSISIQVLLGAL-----KLQPGPHALYVP-- 109

Qy 121 VSNYILSPRYLG-NSPYDIALVKLSAPVYTYKHQIPCLQASTFFENRNTDCWWTGWCYI 179

Db 110 VKRVKSHPEYQGMASADVALVELQVPTFTKYLPCVLDPDSVPFKSGMNCWVTGWSGP 169

Qy 180 KEDEALPSFHTLQEVQVAILNNSCNHLFLKYSEF-----KDFGDMWCAGNAQGGKACF 235

```
Db 170 SEQDLNPNRILQKLAFLIDTPKCNLLYSKDAEADIQLKTIKDDMLCAGFAEGKDKACK 229
Qy 236 GDSGGPLACNDKGLWYQIGVSVGWGCGRRNRPQVYTNISHHFWIOKLM-----AQ 287
Db 230 GDSGGPLVCLVDQSWQAGVISWEGCARRNRPQVYTNISHHFWIOKLM-----AQ 287
Qy 288 SGMSQDPD-SW-PL 299
Db 290 SQQQORDPRGWQPL 303

RESULT 9
ID Q61E60 PRELIMINARY; PRT; 321 AA.
AC Q61E60;
DT 05-JUL-2004 (TREMBLrel. 27, Created)
DT 05-JUL-2004 (TREMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TREMBLrel. 27, Last annotation update)
DE Marapsin precursor.
GN Name=mpn;
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Sprague-Dawley;
RX PubMed=15060002; DOI=10.1101/gr.1946304;
RA Puente X.S., Lopez-Otin C.;
RT "A genomic analysis of rat proteases and protease inhibitors.";
RL Genome Res. 14:609-622(2004).
CC -|- SIMILARITY: Belongs to peptidase family S1.
CC -|- MISCELLANEOUS: The sequence shown here is derived from an
CC EMBL/GenBank/DBJ third party annotation (TPA) entry.
DR EMBL; BN000333; CAE48388.1; -
DR HSSP; P00734; 1BX.
DR GO; GO:0004263; F:chymotrypsin activity; IEA.
DR GO; GO:0008233; F:peptidase activity; IEA.
DR GO; GO:0004295; F:trypsin activity; IEA.
DR GO; GO:0006508; P:proteolysis and peptidolysis; IEA.
DR InterPro; IPR001254; Peptidase S1.
DR InterPro; IPR001314; Peptidase_S1A.
DR InterPro; IPR009003; Pept_Ser_Cys.
DR Pfam; PF00089; Trypsin; 1.
DR SMART; SMART; SM00020; Tryp_SPC; 1.
DR PROSITE; PS00240; TRYPSIN_DOM; 1.
DR PROSITE; PS00134; TRYPSIN_HIS; UNKNOWN_1.
DR PROSITE; PS00135; TRYPSIN_SER; 1.
KW Hydrolase; Protease; Serine protease; Signal.
FT SIGNAL 1 26 Potential.
FT CHAIN 27 321 marapsin.
SQ SEQUENCE 321 AA; 35053 MW; A87735DF7A52F9E1 CRC64;

Query Match 34.6%; Score 597.5; DB 2; Length 321;
Best Local Similarity 43.3%; Pred. No. 6.1e-45;
Matches 136; Conservative 38; Mismatches 95; Indels 45; Gaps 10;

Qy 6 ALLIALLARAGLRKPESQEAAPLSGPGRRVITSRIVGGDEALGRWPQGLRLWDSH 65
Db 8 ALLLPLLLRSGL-----PACGHRPMFNMVGGDEALGEWPVQVSIORGAH 55
Qy 66 VCGVSLLSHRWALTAACHFETYSDLSDPSGWNVPQGLTSMPSFWSLQ-----AYTYRF 120
Db 56 FCGSLIAPTWTWLTIAHCFST-----SDISIYQVLIGAL-----KLOQPGPHALYVP-- 102
Qy 121 VSNIVLSRYLG-NSPYDIALVKLSAPVYTKHQPICLQASTFEFENRTDCWVTGMGY 179
Db 103 VKRVKSHPEYQGMASADVALVELQPVFTFKYILPVCLPDPVSVFKSGMNCWVTGWSP 162
Qy 180 KEDEALPSPHILOEQVOVAIINSMCNHFLFKYSFR-----KIFGDMVCAAGQAGKDACF 235
Db 163 SEQDLNPNRILQKLAFLIDTPKCNLLYSKDAEADIQLKTIKDDMLCAGFAEGKDKACK 222
```

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Qy 236 GDSGGPLACNDKGLWYQIGVSVGWGCGRRNRPQVYTNISHHFWIOKLM-----AQ 287
Db 223 GDSGGPLVCLVDQSWQAGVISWEGCARRNRPQVYTNISHHFWIOKLM-----AQ 287
Qy 288 SGMSQDPD-SW-PL 299
Db 283 SQQQORDPRGWQPL 296

RESULT 10
TRYG HUMAN STANDARD; PRT; 321 AA.
ID QNRR2; Q9C015; Q9NRQ8; Q9UBB2;
AC QNRR2; Q9C015; Q9NRQ8; Q9UBB2;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 25-OCT-2004 (Rel. 45, Last annotation update)
DE Tryptase gamma precursor (EC 3.4.21.-) (Transmembrane tryptase).
GN Name=TPSG1; Synonyms=TWI;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A. (VARIANTS GAMMA-1 AND GAMMA-2).
RX MEDLINE=20302813; PubMed=10843716;
RA Caughey G.H., Raymond W.W., Blount J.L., Hau L.W., Pallaro M.,
RA Wolters P.J., Verghese G.M.;
RT "Characterization of human gamma-tryptases, novel members of the
RT chromosome 16p mast cell tryptase and prostatic gene families.";
RL J. Immunol. 164:6566-6575(2000).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=99452974; PubMed=10521469; DOI=10.1074/jbc.274.43.30784;
RA Wong G.W., Tang Y., Feyfant E., Sali A., Li L., Li Y., Huang C.,
RA Friend D.S., Krilis S.A., Stevens R.L.;
RT "Identification of a new member of the tryptase family of mouse and
RT human mast cell proteases which possesses a novel COOH-terminal
RT hydrophobic extension.";
RL J. Biol. Chem. 274:30784-30793(1999).
RN [3]
RP SEQUENCE OF 220-321 FROM N.A.
RA Mittman S., Agnew W.S.;
RT "Organization and alternative splicing of CACNAH1.";
RC Submitted (JAN-2001) to the EMBL/GenBank/DBJ databases.
CC -|- SUBCELLULAR LOCATION: Membrane-anchored (Potential).
CC -|- TISSUE SPECIFICITY: Expressed in many tissues.
CC -|- POLYMORPHISM: There are two alleles, gamma-I and gamma-II which
CC differ by 5 residues.
CC -|- SIMILARITY: Belongs to the peptidase S1 family. Tryptase
CC subfamily.
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
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CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC or send an email to license@isb-sib.ch).
CC
CC EMBL; AF191031; AAF76457.1; -
CC EMBL; AF195508; AAF76458.1; -
CC EMBL; AF175759; AAF03697.1; -
CC EMBL; AF175522; AAF03695.1; -
CC EMBL; AF223563; AAG48852.2; -
CC HSSP; P00760; 1EXX.
CC MEROPS; S01.028; -.
CC Genew; HGNC:14134; TPSG1.
CC InterPro; IPR009003; Pept_Ser_Cys.
CC InterPro; IPR001254; Peptidase_S1.
CC InterPro; IPR001314; Peptidase_S1A.
CC Pfam; PF00089; Trypsin; 1.
CC PRINTS; PR00722; CHYMOTRYPSIN.
```



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RN  SEQUENCE FROM N.A.
RP  TISSUE=Whole body;
RC  MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA  Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA  Klausner R.D., Collins F.S., Wagner L., Shenman C.M., Schuler G.D.,
RA  Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA  Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA  Datchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA  Scapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA  Brownstein M.J., Ustin T.B., Toshiyuki S., Carninci P., Prange C.,
RA  Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaby S.J.,
RA  Boeak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA  Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA  Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA  Whiting J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,
RA  Blakeley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA  Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA  Krzywinski M.I., Skalska U., Smalls D.E., Schnerch A., Schein J.E.,
RA  Jones S.J., Marra M.A.;
RT  "Generation and initial analysis of more than 15,000 full-length human
RL  and mouse cDNA sequences.";
RL  Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
RN  SEQUENCE FROM N.A.
RP  TISSUE=Whole body;
RC  Submitted (JUN-2004) to the EMBL/GenBank/DBJ databases.
CC  -1- SIMILARITY: Belongs to peptidase family S1.
DR  EMBL; BC075293; AAH75293.1;
DR  GO; GO:0004263; F:chymotrypsin activity; IEA.
DR  GO; GO:0004295; F:trypsin activity; IEA.
DR  GO; GO:0006508; P:proteolysis and peptidolysis; IEA.
DR  InterPro; IPR001254; Peptidase_S1.
DR  InterPro; IPR001314; Peptidase_S1A.
DR  InterPro; IPR003003; Pept_Ser_Cys.
DR  Pfam; PF00089; Trypsin; 2.
DR  PRINTS; PR00722; CHYMOTRYPSIN.
DR  SMART; SM00020; TRYP SP; 2.
DR  PROSITE; PS00240; TRYP SIN DOM; 2.
DR  PROSITE; PS00134; TRYP SIN HIS; UNKNOWN_2.
DR  PROSITE; PS00135; TRYP SIN SER; 2.
KW  Hydrolase; Protease; Serine protease.
SQ  SEQUENCE 719 AA; 76098 MW; 906346A21D8834C6 CRC64;

Query Match 33.9%; Score 586; DB 2; Length 719;
Best Local Similarity 43.3%; Pred No 1.6e-43;
Matches 117; Conservative 43; Mismatches 90; Indels 20; Gaps 7;

Qy 21 PESQEAAPLSPGCGRRVITRIVGEDAEILGRWPQWQSLRLMDSHVCGVSLLSHRWALTA 80
Db 364 PTLISLTPAPPACGSPVSSRIVGGTDAREGAMPQVSLVRGSHICGSGVIGTQWILTA 423
Qy 81 AHCFETVSDLSDPGWWVQFGQ---LTSMPSPWLSQAYT--RYFVSNIVLSPRYLNSP 135
Db 424 AHCFE---NSQFPSPDYEVRLGTVRLAQTSPN----EITYTVDIRIVNSQFDSSTLFG--- 473
Qy 136 YDIALVKLSAPVTYTKHIOPIQLOASTFEPENRTDCWVTGWGVYKEDALPSPHTLQEVQ 195
Db 474 -DIALRLTSPITTKILPVCLEPSTNSFTDGMCEWVTGNTLSLVNLPYKTLQEV 532
Qy 196 VAIINSMCN---HLFLKYIFRDKIF-GDMVYCAAGQGGKACFGDSGGGLACNKGGLWY 251
Db 533 TPLNRTCDQYHIDSPVSASSEIIFSDQICSGYSAGKDSCKGSDGGLVCKLQGIWY 592
Qy 252 QIGVSVNGVGGRRNRRGVTNINSHFEWI 281
Db 593 QIGIVSWGEGCAIARPGVTVLPAYISWV 622

RESULT 13
Q8BJR6
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ID  Q8BJR6 PRELIMINARY; PRT; 328 AA.
AC  Q8BJR6;
DT  01-MAR-2003 (TrEMBLrel. 23, Created)
DT  01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT  05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE  Mus musculus 3 days neonate thymus cDNA, RIKEN full-length enriched
DE  library, clone.A630023F11 product:similar to MARAPSIN (EC 3.4.21.-)
DE  (fancresain) (Channel-activating protease 2-like protein).
GN  Name=Mpn;
OS  Mus musculus (Mouse).
OC  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC  Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX  NCBI_TaxID=10090;
RN  [1]
RP  SEQUENCE FROM N.A.
RC  STRAIN=C57BL/6J; TISSUE=Thymus;
RX  MEDLINE=99279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;
RA  Carninci P., Hayashizaki Y.;
RT  "High-efficiency full-length cDNA cloning.";
RL  Meth. Enzymol. 303:19-44 (1999).
RN  [2]
RP  SEQUENCE FROM N.A.
RC  STRAIN=C57BL/6J; TISSUE=Thymus;
RX  MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;
RA  RIKEN FANTOM Consortium;
RT  "Functional annotation of a full-length mouse cDNA collection.";
RL  Nature 409:685-690 (2001).
RN  [3]
RP  SEQUENCE FROM N.A.
RC  STRAIN=C57BL/6J; TISSUE=Thymus;
RA  The FANTOM Consortium,
RA  the RIKEN Genome Exploration Research Group Phase I & II Team;
RT  "Analysis of the mouse transcriptome based on functional annotation of
RT  60,770 full-length cDNAs.";
RL  Nature 420:563-573 (2002).
RN  [4]
RP  SEQUENCE FROM N.A.
RC  STRAIN=C57BL/6J; TISSUE=Thymus;
RX  MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;
RA  Carninci P., Shibata Y., Hayatsu M., Sugahara Y., Shibata K., Itoh M.,
RA  Konno H., Akiyama J., Nishi K., Kiteunai T., Tashiro H., Itoh M.,
RA  Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,
RA  Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,
RA  Fujiwaka S., Inoue K., Togawa Y., Izawa M., Ohara E., Watabiki M.,
RA  Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsuura S., Kawai J.,
RA  Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;
RT  "RIKEN integrated sequence analysis (RISA) system-384-format
RT  sequencing pipeline with 384 multicapillary sequencer.";
RL  Genome Res. 10:1757-1771 (2000).
RN  [5]
RP  SEQUENCE FROM N.A.
RC  STRAIN=C57BL/6J; TISSUE=Thymus;
RX  MEDLINE=20530913; PubMed=11076861; DOI=10.1101/gr.152600;
RA  Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,
RA  Konno H., Akiyama J., Nishi K., Kiteunai T., Tashiro H., Itoh M.,
RA  Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,
RA  Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,
RA  Fujiwaka S., Inoue K., Togawa Y., Izawa M., Ohara E., Watabiki M.,
RA  Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsuura S., Kawai J.,
RA  Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;
RT  "RIKEN integrated sequence analysis (RISA) system-384-format
RT  sequencing pipeline with 384 multicapillary sequencer.";
RL  Genome Res. 10:1757-1771 (2000).
RN  [6]
RP  SEQUENCE FROM N.A.
RC  STRAIN=C57BL/6J; TISSUE=Thymus;
RA  Adachi J., Aizawa K., Akimura T., Arakawa T., Bono H., Carninci P.,
RA  Fukuda S., Furuno M., Hanagaki T., Hara A., Hashizume W.,
RA  Hayashida K., Hayatsu N., Hiramoto K., Hiraoka T., Hirozane T.,
RA  Hori P., Imotani K., Ishii Y., Itoh M., Kagawa I., Kasukawa T.,
RA  Katoh H., Kawai J., Kojima Y., Kondo S., Konno H., Kouda M., Koya S.,
RA  Kurihara C., Matsuyama T., Miyazaki A., Murata M., Nakamura M.,
RA  Nishi K., Nomura K., Numazaki R., Ohno M., Ohsato N., Okazaki Y.,
RA  Saito K., Saitoh H., Sakai C., Sakai K., Sakazume N., Sano H.,
RA  Sasaki D., Shibata K., Shinagawa A., Shiraki T., Sogabe Y., Tagami M.,
RA  Tagawa A., Takahashi F., Takaku-Akahira S., Takeda Y., Tanaka T.,
RA  Tomaru A., Toya T., Yasunishi A., Muramatsu M., Hayashizaki Y.;
RT  Submitted (APR-2002) to the EMBL/GenBank/DBJ databases.
RL
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RN  [7]
RP  SEQUENCE FROM N.A.
RC  STRAIN=C57BL/6; TISSUE=Bladder;
RX  MEDLINE=22433795; PubMed=12441343; DOI=10.1074/jbc.M209353200;
RA  Bhagwandin V.J., Hau L.W., Mallen-St Clair J., Wolters P.J.,
RA  Chaghey G.H.;
RT  "Structure and activity of human pancreatin, a novel tryptic serine
RT  peptidase expressed primarily by the pancreas.";
RL  J. Biol. Chem. 5:3363-3371(2003).
RN  [8]
RP  SEQUENCE FROM N.A.
RC  STRAIN=129/SvJ;
RA  Brathwaite M., Waeltz P., Schlessinger D., Nagaraja R.;
RL  Submitted (OCT-2002) to the EMBL/GenBank/DBJ databases.
CC  -!- SIMILARITY: Belongs to peptidase family S1.
DR  EMBL; AK080281; BAC37864.1; -
DR  EMBL; AF542056; AA027572.1; -
DR  EMBL; AY162410; AA017162.1; -
DR  HSPSP; P00734; 1UVS.
DR  MEROPS; S01.074; -.
DR  MGD; MG1:2450123; Mpn.
DR  GO; GO:0004263; F:chymotrypsin activity; IEA.
DR  GO; GO:0008233; F:peptidase activity; IEA.
DR  GO; GO:0004235; F:trypsin activity; IEA.
DR  GO; GO:0006508; P:proteolysis and peptidolysis; IEA.
DR  InterPro; IPR001254; Peptidase S1.
DR  InterPro; IPR001314; Peptidase S1A.
DR  InterPro; IPR009003; Pept_ser_Cys.
DR  Pfam; PF00089; Trypsin_1.
DR  PRINTS; PR00722; CHYMOTRYPSIN.
DR  SMART; SM00020; TRYP_SPC; 1.
DR  PROSITE; PS00240; TRYPSIN_DOM; 1.
DR  PROSITE; PS00134; TRYPSIN_HIS; UNKNOWN_1.
DR  PROSITE; PS00135; TRYPSIN_SER; 1.
KW  Hydrolase; Protease; Serine protease.
SQ  SEQUENCE 328 AA; 35789 MW; DC0B20F1AB3EB840 CRC64;

Query Match 33%; Score 585; DB 2; Length 328;
Best Local Similarity 44.2%; Pred. No. 8.1e-44;
Matches 129; Conservative 41; Mismatches 94; Indels 28; Gaps 8;

QY 6 ALLALLALLARGLKPKSOEAAPLSGPCGRVTSRVVGGDDELGRWPGQSLRLWDH 65
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 8 ALLLLPLLRG-----TEGARTLRACGPFKMFNRMVGGENALEGEPWQVSIQRNGI 61
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 66 VCGVSLLSHRWALTAACFETYSPLSDPSGWMVQFGLTSPSPWSLQ-----AYYTRYF 120
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 62 FCGSLIAPTWTWLIARHCF-----SNTSDISIYQVLGLAL--KLQPGPHALYVP-- 109
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 121 VSNLYLSPRYLG-NSPYDIALVKLSAPVYTKHTIQICLQASTPEFENRTDCWVTGWGYI 179
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 110 VKQKSNPQYQGMASADVALVQLGPPVTFNYILPVCLPPSPVIFESGMNCWVTGWSP 169
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 180 KEDALSPHTLOEVOVAIINNSCNHFL---LKYSPR-KDIFGDMVCAGNAQGGKDA 235
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 170 SEQRLNPNRVLQKLAVPIIDTPKCNLLYNKNDVESDQLTKIDMLCAGFAEGKDA 229
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 236 GDSGGPLACNDGLWYQIGVGVGCGRPNRPGVYTNIGHFWIOLKMAQ 287
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 230 GDSGGPLVCLVDQSWQAGVISWEGGARRNPGVYIRVTSKHWIHIQIPE 281
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 14
PSS8 HUMAN STANDARD; PRT; 343 AA.
AC Q16651; OPUCA3;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 25-OCT-2004 (Rel. 45, Last annotation update)
DE Proctasin precursor (EC 3.4.21.-).
GN Name=PRSS8;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.
RC TISSUE=Prostate;
RX MEDLINE=95286644; PubMed=7768952;
RY J.X., Chao L., Chao J.;
RT "Molecular cloning, tissue-specific expression, and cellular
RT localization of human proctasin mRNA.";
RL J. Biol. Chem. 270:13483-13489(1995).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Placenta;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Srausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shennen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.P., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahy J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [3]
RP SEQUENCE OF 45-64.
RC TISSUE=Semen;
RX MEDLINE=94308140; PubMed=8034638;
RY Yu J.X., Chao L., Chao J.;
RT "Proctasin is a novel human serine proteinase from seminal fluid.
RT Purification, tissue distribution, and localization in prostate
RT gland.";
RL J. Biol. Chem. 269:18943-18948(1994).
CC -!- FUNCTION: Possesses a trypsin-like cleavage specificity.
CC -!- SUBUNIT: Heterodimer of two chains, light and heavy, held by a
CC disulfide bond.
CC -!- SUBCELLULAR LOCATION: Membrane-bound. Secreted after cleavage of
CC its C-terminus.
CC -!- TISSUE SPECIFICITY: Found in prostate, liver, salivary gland,
CC kidney, lung, pancreas, colon, bronchus and renal proximal tubular
CC cells. In the prostate gland it may be synthesized in epithelial
CC cells, secreted into the ducts, and excreted into the seminal
CC fluid.
CC -!- SIMILARITY: Belongs to the peptidase S1 family.
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CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL; L41351; AAC41759.1; -
CC EMBL; U33446; AAB19071.1; -
CC EMBL; BC001462; AAH01462.1; -
CC PIR; A57014; A57014.
CC HSPSP; P00760; 1EZX.
CC MEROPS; S01.159; -.
CC Genew; HGNC:9491; PRSS8.
CC H-InvDB; HIX0012982; -.
CC MIM; 600823; -.
CC GO; GO:0005615; C:extracellular space; TAS.
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DR GO; GO:0005886; C:plasma membrane; TAS.
DR GO; GO:0008236; F:serine-type peptidase activity; TAS.
DR InterPro; IPR009003; Pept Ser Cys.
DR InterPro; IPR001254; Peptidase_S1.
DR InterPro; IPR001314; Peptidase_S1A.
DR Pfam; PF00089; Trypsin_1.
DR PRINTS; PR00722; CHYMOTRYPSIN.
DR SMART; SM00020; Tryp_Spc; 1.
DR PROSITE; PS0240; TRYPSIN_DOM; 1.
DR PROSITE; PS00134; TRYPSIN_HIS; 1.
DR PROSITE; PS00135; TRYPSIN_SER; 1.
KW Direct protein sequencing; Glycoprotein; Hydrolase; Serine protease;
KW Signal; transmembrane; Zymogen.
FT SIGNAL 1 29 Potential.
FT PROPEP 30 32 Activation peptide.
FT CHAIN 33 44 Proctasin light chain.
FT CHAIN 45 322 Proctasin heavy chain.
FT PROPEP 323 343
FT TRANSMEM 320 340 Potential.
FT DOMAIN 45 286 Serine protease.
FT DISULFID 37 154 Interchain (By similarity).
FT DISULFID 70 86 By similarity.
FT DISULFID 168 244 By similarity.
FT DISULFID 201 223 By similarity.
FT DISULFID 234 262 By similarity.
FT ACT_SITE 85 85 Charge relay system.
FT ACT_SITE 134 134 Charge relay system.
FT ACT_SITE 238 238 Charge relay system.
FT CARBOHYD 159 159 N-linked (GlcNAc...) (Potential).
SQ SEQUENCE 343 AA; 36431 MW; 98DD6447F5A8C1B2 CRC64;

Query Match 33.5%; Score 579.5; DB 1; Length 343;
Best Local Similarity 41.0%; Pred. No. 2.7e-43;
Matches 141; Conservative 45; Mismatches 101; Indels 57; Gaps 12;

Qy 6 ALLIALLARAGLRKPSQEAAPLSGCGRRVITSRVGGEDAEALGRWPNQGSRLRLWDH 65
Db 16 AILLYLGLLRSG-TGAEGAE-----PCG-VAQARITGGSSAVAGQWPQVSIYRGVH 68
Qy 66 VCGVSLLSHRWALTAACHFFETYSLDSPS-----GMMVQFG--QLTSMPSFWSLQAYYTR 118
Db 69 VCGSLVSEQWLNSAACHF-----PSEHKEAYEVKLGARQLDS-----YSEDAKVST 116
Qy 119 YFVSNLYSPRYL-GNSPYDIALKLSAPVYTKHQIPICLOASTFEFENRTDCWVTG 177
Db 117 --LKDIIHPHSYLGQSGDIALQLSRPITFSYIRIPICLPAANASFPNGLHCTVTG 174
Qy 178 YKDEALPSHTLOFQVOVAIINSMCNHLP---LKYSFRKDFGDMVWCAGNAGGKDAC 234
Db 175 HVAPSVSLTPKPLQLEVLISRETNCCLYNIDAKPEEPHFQEDMVCAGYVEGGKDAC 234
Qy 235 FGDSGGPLACNKGWLWYQIGVWSGVCGRRNPGVYTNISHPFEWIQ-----KLMA 286
Db 235 QGDSGGPLSCPVEGLWYLTGLVSGVCGARRNPGVYTNLASSYASWISQSKTELQPRV 294
Qy 287 QSGMSQPDPSW-----PLIFFPLLMALPLGP 313
Db 295 QTQESQDSNLCSGLAFSSAPAQGLRLPILFLPLGLALGLLSP 338

RESULT 15
Q9PVX7 PRELIMINARY; PRT; 389 AA.
AC Q9PVX7;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Epidermis specific serine protease.
OS Name=Xepsin;
GN Xenopus laevis (African clawed frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipidea; Pipidae;
OC Xenopodinae; Xenopus.

OX NCBI_TaxID=8355;
RN [1]
RP SEQUENCE FROM N.A.
RA Yamada K.;
RL Submitted (OCT-1998) to the EMBL/GenBank/DBJ databases.
CC -1- SIMILARITY: Belongs to peptidase family S1.
DR EMBL; AB018694; BAAB4941.1; -;
DR HSSP; P00760; 1EZX.
DR GO; GO:0004263; F:Chymotrypsin activity; IEA.
DR GO; GO:0008233; F:peptidase activity; IEA.
DR GO; GO:0004295; F:trypsin activity; IEA.
DR GO; GO:0006508; P:proteolysis and peptidolysis; IEA.
DR InterPro; IPR001254; Peptidase_S1.
DR InterPro; IPR001314; Peptidase_S1A.
DR InterPro; IPR009003; Pept Ser Cys.
DR Pfam; PF00089; Trypsin_1.
DR PRINTS; PR00722; CHYMOTRYPSIN.
DR SMART; SM00020; Tryp_Spc; 1.
DR PROSITE; PS0240; TRYPSIN_DOM; 1.
DR PROSITE; PS00134; TRYPSIN_HIS; UNKNOWN_1.
DR PROSITE; PS00135; TRYPSIN_SER; 1.
KW Hydrolase; Protease; Serine protease.
SQ SEQUENCE 389 AA; 42375 MW; B31PB4A2F5D1F6E3 CRC64;

Query Match 33.3%; Score 575.5; DB 2; Length 389;
Best Local Similarity 39.9%; Pred. No. 6.9e-43;
Matches 120; Conservative 44; Mismatches 84; Indels 53; Gaps 7;

Qy 33 CGRRVITSRVGGEDAEALGRWPNQGSRLRLWDHVCVSLLSHRWALTAACHFFETYS----- 88
Db 17 CGVPIVSNRIVGMDSKRGEPWQISLSYKSDSICGSSLTDSWVMTAAHCIDSLDSVY 76
Qy 89 -----DLSDPSGMMVQFG--QLTSMPSFWSLQAYYTRYFVSNIYLSPRYLGNSPYDIA 139
Db 77 TVYLGAQLSAPDNSTVSRGVKSIYKHPD-----QYEGSSG-DIA 116
Qy 140 LVKLSAPVYTKHQIPICLOASTFEFENRTDCWVTGWTGYIKEDALPSHTLQEVQVAII 199
Db 117 LIELEKPVITFTYILPILCLPSQDVQFAAGTMCWVTGWTGNIQEGTPLISPKTIQAEVAII 176
Qy 200 NNSMCNHLFLK-----YSFRKDFGDMVWCAGNAGGKDACFGDSGGLACNKGWLWYQ 252
Db 177 DSSVCGTMYESSLGYPDFSFIOE---DMVCAGYKEGRIDACQDSGGLVCNVMNWLQ 233
Qy 253 IGVSWSGVCGRRNPGVYTNISHPFEWIKLMAQSGMSQPDPSWPLLPFLLMALPLLG 312
Db 234 LGIVSWGVCAPENRPGVYTKVQYQDWLKTNPVLIVFSEGEFS-----VAPSIG 283
Qy 313 P 313
Db 284 P 284

Search completed: February 27, 2005, 20:18:32
Job time : 116.869 secs

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	Score	Match	Length			
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5	1090.6	99.1	1100	6	BD173395	Secreted
6	1090.6	99.1	1100	6	BD175429	Secretory
7	1090.6	99.1	1100	6	AR410808	Secretory
8	1090.6	99.1	1100	6	AR439172	Sequence
9	1090.6	99.1	1100	6	AR473192	Sequence
10	1080.6	99.1	1100	6	AR527178	Sequence
11	1090.6	99.1	1100	6	AR566211	Sequence
12	1090.6	99.1	1100	6	AX697665	Sequence
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17	1075.6	97.8	1082	6	E21867	Novel
18	1075.6	97.8	1082	6	AX370459	Sequence
19	1075.6	97.8	1082	9	AB031329	Homo sapi

Query Match	100.0%;	Score 1100;	DB 6;	Length 1100;
Best Local Similarity	100.0%;	Pred. No. 6.3e-267;		
Matches 1100;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	CGCGGAGAGGAGCCATGGGCGCGCGGGGGCGCTGCTGCGCGCTGCTGCTGCTGCTG	60	
Db	1	CGCGGAGAGGAGCCATGGGCGCGCGGGGGCGCTGCTGCTGCGCGCTGCTGCTGCTGCTG	60	
QY	61	GGTGTGACTCAGGAAGCCGGAGTTCGACGAGGCGGCGCGCTTATCAGGACCATTCGGGCGG	120	
Db	61	GGTGTGACTCAGGAAGCCGGAGTTCGACGAGGCGGCGCGCTTATCAGGACCATTCGGGCGG	120	
QY	121	ACGGGTATCAGTTCGGCGATCGTGGGTGGAGAGACGCCGAATCTGGGCGGTGGCCGTG	180	
Db	121	ACGGGTATCAGTTCGGCGATCGTGGGTGGAGAGACGCCGAATCTGGGCGGTGGCCGTG	180	
QY	181	GCAGGGGAGCCTTCGGCCTCTGGGATTCACCACTATGCGGAGTGAGCCTCTCAGGCCACCG	240	
Db	181	GCAGGGGAGCCTTCGGCCTCTGGGATTCACCACTATGCGGAGTGAGCCTCTCAGGCCACCG	240	
QY	241	CTTGGGCATCACGGGCGGCATCTGCTTTGAAACCTATAGTGACCTTATGTGATCCCTCCGG	300	

241	Db	CTGGGCACCTCAGCGCGCGCACTGCTTTTGAAACCTATAGTGAACCTTAGTGATCCCTCCGG	300
301	QY	GTGGATGGTCCAGTTTGGCCAGCTGACTTCATGCCATCCTTCTGGAGCCTGCGAGGCCTA	360
301	Db	GTGGATGGTCCAGTTTGGCCAGCTGACTTCATGCCATCCTTCTGGAGCCTGCGAGGCCTA	360
361	QY	CTACACCCGTTACTTTGGTATCGAATATCTATCTGAGCCCTCGCTACCTGGGGAATTCACC	420
361	Db	CTACACCCGTTACTTTGGTATCGAATATCTATCTGAGCCCTCGCTACCTGGGGAATTCACC	420
421	QY	CTATGACATTCGCTTGGTGAAGCTGCTGACCTGTCACTTACCTAAACACATCCAGCC	480
421	Db	CTATGACATTCGCTTGGTGAAGCTGCTGACCTGTCACTTACCTAAACACATCCAGCC	480
481	QY	CATCTGCTCCAGCCCTCCACATTTGAGTTTGAGAACCGACAGACTGCTGGGTGACTCG	540
481	Db	CATCTGCTCCAGCCCTCCACATTTGAGTTTGAGAACCGACAGACTGCTGGGTGACTCG	540
541	QY	CTGGGGGTACATCAAGAGGATGAGGCATGCGCATCTCCCCACACCTCCAGGAAGTTCA	600
541	Db	CTGGGGGTACATCAAGAGGATGAGGCATGCGCATCTCCCCACACCTCCAGGAAGTTCA	600
601	QY	GGTGGCCATCATAAACAACTCTATGTGCAACACCTCTTCTCAAGTACAGTTTCGCA	660
601	Db	GGTGGCCATCATAAACAACTCTATGTGCAACACCTCTTCTCAAGTACAGTTTCGCA	660
661	QY	GGACATCTTTGGAGACATGTTTGTGCTGCAATGCCAAGCGGGGAAGATGCTGCTT	720
661	Db	GGACATCTTTGGAGACATGTTTGTGCTGCAATGCCAAGCGGGGAAGATGCTGCTT	720
721	QY	CGGTGACTCAGGTGGACCTTGGCCTGTGTAAACAAGGATGGAATGTGGTATCAGATTGGAGT	780
721	Db	CGGTGACTCAGGTGGACCTTGGCCTGTGTAAACAAGGATGGAATGTGGTATCAGATTGGAGT	780
781	QY	CGTGAGCTGGGAGTGGGCTGTGGTGGCCCAATCGGCCCGGTGTCTACACCAATATCAG	840
781	Db	CGTGAGCTGGGAGTGGGCTGTGGTGGCCCAATCGGCCCGGTGTCTACACCAATATCAG	840
841	QY	CCACACTTTGAGTGGATCCAGAACTGATGGCCCGAGATGCGCATGTCACCAAGTATCAG	900
841	Db	CCACACTTTGAGTGGATCCAGAACTGATGGCCCGAGATGCGCATGTCACCAAGTATCAG	900
901	QY	CTCCTGGCCGCTACTCTTTTCCCTCTTCTTGGGCTCTCCCACTCTGGGGCGGCTCTG	960
901	Db	CTCCTGGCCGCTACTCTTTTCCCTCTTCTTGGGCTCTCCCACTCTGGGGCGGCTCTG	960
961	QY	AGCTTACCTGAGCCCATGCACTGGGGCCATGCGCAAGTCAAGCCCTGTTCTTCTTCTG	1020
961	Db	AGCTTACCTGAGCCCATGCACTGGGGCCATGCGCAAGTCAAGCCCTGTTCTTCTTCTG	1020
1021	QY	TCCTGTTTGGTATTAACACATTCAGTCTGATGCTTGGAGGCGATTTTCAAAAAAAA	1080
1021	Db	TCCTGTTTGGTATTAACACATTCAGTCTGATGCTTGGAGGCGATTTTCAAAAAAAA	1080
1081	QY	AAAAAAAAAAAAAAAAAAAA 1100	
1081	Db	AAAAAAAAAAAAAAAAAAAA 1100	
RESULT 2			
BD172438			
LOCUS	BD172438 1100 bp DNA linear PAT 18-FEB-2003		
DEFINITION	Secreted and transmembrane polypeptides and nucleic acids encoding the same.		
ACCESSION	BD172438		
VERSION	BD172438.1 GI:28413738		
KEYWORDS	JP 200223786-A/211.		
SOURCE	Homo sapiens (human)		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
AUTHORS	Wood, W.I., Gurney, A.L., Goddard, A., Pennica, D., Zheng, J. and		

[illegible]

RESULT 5
BD173395
LOCUS

Db 64 GGCTGGAGTCAGGAAGCGGAGTCGCGAGGCGCGCGTATCAGGACCATCGCGCG 123
QY 121 ACGGCTCATACGTCGCGGCGATCGTGGGTGGAGAGGAGCGCGAACTCGGGGCGTGGCGCGT 180
Db 124 ACGGCTCATACGTCGCGGCGATCGTGGGTGGAGAGGAGCGCGAACTCGGGGCGTGGCGCGT 183
QY 181 GCAGGGAGCGCTGCGCTGTCGGATCCCGATGCGGAGTGGAGCTGCTGACGCCACCG 240
Db 184 GCAGGGAGCGCTGCGCTGTCGGATCCCGATGCGGAGTGGAGCTGCTGACGCCACCG 243
QY 241 CTGGGCACTACGGGCGGCGACTGCTTTGAACTATAGTGACCTTAGTGATCCCTCCGG 300
Db 244 CTGGGCACTACGGGCGGCGACTGCTTTGAACTATAGTGACCTTAGTGATCCCTCCGG 303
QY 301 GTGATGTCAGTTCGAGTTGGCGAGCTGCTTCCATGCCATCTTCTGGAGCTGCGAGGCGTA 360
Db 304 GTGATGTCAGTTCGAGTTGGCGAGCTGCTTCCATGCCATCTTCTGGAGCTGCGAGGCGTA 363
QY 361 CTACACCGGTTACCTGATCGAATATCTATCTGAGCCCTCGCTACCTGGGGAATTCACC 420
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QY 421 CTATGACATTCGCTTGTGTAAGCTGCTGACCTGTGACCTACCTACCTAAACACATCCAGC 480
Db 424 CTATGACATTCGCTTGTGTAAGCTGCTGACCTGTGACCTACCTACCTAAACACATCCAGC 483
QY 481 CATCTGCTCCAGCGCTCCACATTTGAGTTGAGAAACCGACACACTGCTGGGTGACTGG 540
Db 484 CATCTGCTCCAGCGCTCCACATTTGAGTTGAGAAACCGACACACTGCTGGGTGACTGG 543
QY 541 CTGGGGGTACATCAAGAGGATGAGGACCTGCCATCTCCACACCTCCAGGAAGTTCA 600
Db 544 CTGGGGGTACATCAAGAGGATGAGGACCTGCCATCTCCACACCTCCAGGAAGTTCA 603
QY 601 GGTGCGCATCAATAAACAACCTATGTGCAACCACTCTTCTCAAGTACAGTTCCGCA 660
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QY 661 GGACATCTTTGGAGACATGTTGCTGCGCAATGCCAAGCGGGAAGATGCTGCT 720
Db 664 GGACATCTTTGGAGACATGTTGCTGCGCAATGCCAAGCGGGAAGATGCTGCT 723
QY 721 CGGTGACTCAGGTGAGCCCTTGGCTGTAAACAAGATGAGTGTGATCAGATTGAGT 780
Db 724 CGGTGACTCAGGTGAGCCCTTGGCTGTAAACAAGATGAGTGTGATCAGATTGAGT 783
QY 781 CGTGAGCTGGGAGTGGGCTGTGCTGGCCCAATCGGCCCGGTCTACACCAATATCAG 840
Db 784 CGTGAGCTGGGAGTGGGCTGTGCTGGCCCAATCGGCCCGGTCTACACCAATATCAG 843
QY 841 CCACCATCTTCAGTGGATCCAGAGCTGATGGCCCGAGTGGCATGTCCTCCAGCCAGACCC 900
Db 844 CCACCATCTTCAGTGGATCCAGAGCTGATGGCCCGAGTGGCATGTCCTCCAGCCAGACCC 903
QY 901 CTCCTGGCCGCTACTCTTTTTCCTCTTCTGCGCTCTCCACTCTCTGGGCGCGGCTG 960
Db 904 CTCCTGGCCGCTACTCTTTTTCCTCTTCTGCGCTCTCCACTCTCTGGGCGCGGCTG 963
QY 961 AGCTACTGAGCCATGACCTGGGCGCACTGCGCAAGTCAAGCCCTGCTTCTTCTG 1020
Db 964 AGCTACTGAGCCATGACCTGGGCGCACTGCGCAAGTCAAGCCCTGCTTCTTCTG 1023
QY 1021 TCTTGTGTTGTAATAACACATTCAGTGTGATGCTTGCAGGCGATTTTCAAAAAA 1080
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QY 1081 AAAAAA 1097
Db 1084 AAAAAA 1100

RESULT 6

BD175429
LOCUS
DEFINITION
Secretory and transmembrane polypeptide and nucleic acid encoding the same.
ACCESSION
BD175429
VERSION
BD175429.1 GI:29121127
KEYWORDS
JP 2002253280-A/211.
SOURCE
Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 1100)
AUTHORS
Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and Yuan,J.
TITLE
Secretory and transmembrane polypeptide and nucleic acid encoding the same
JOURNAL
GENENTECH INC
COMMENT
OS Homo sapiens (human)
PN JP 2002253280-A/211
PD 10-SEP-2002
PF 18-DEC-2001 JP 2001385319
PR 17-SEP-1997 US 60/059115, 17-SEP-1997 US 60/059184 PR
17-SEP-1997 US 60/059122, 17-SEP-1997 US 60/059117 PR
17-SEP-1997 US 60/059113, 17-SEP-1997 US 60/059121 PR
17-SEP-1997 US 60/059119, 18-SEP-1997 US 60/059263 PR
18-SEP-1997 US 60/059266, 15-OCT-1997 US 60/062125 PR
17-OCT-1997 US 60/062287, 17-OCT-1997 US 60/062285 PR
21-OCT-1997 US 60/063486, 24-OCT-1997 US 60/062816 PR
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28-OCT-1997 US 60/063550, 28-OCT-1997 US 60/063542 PR
28-OCT-1997 US 60/063544, 28-OCT-1997 US 60/063564 PR
28-OCT-1997 US 60/063734, 29-OCT-1997 US 60/063738 PR
29-OCT-1997 US 60/063704, 29-OCT-1997 US 60/063435 PR
29-OCT-1997 US 60/064215, 29-OCT-1997 US 60/063735 PR
31-OCT-1997 US 60/063732, 31-OCT-1997 US 60/064103 PR
31-OCT-1997 US 60/063870, 03-NOV-1997 US 60/064248 PR
07-NOV-1997 US 60/064809, 12-NOV-1997 US 60/065186 PR
17-NOV-1997 US 60/065846, 18-NOV-1997 US 60/065693 PR
21-NOV-1997 US 60/066120, 21-NOV-1997 US 60/066364 PR
24-NOV-1997 US 60/066772, 24-NOV-1997 US 60/066466 PR
24-NOV-1997 US 60/066770, 24-NOV-1997 US 60/066511 PR
24-NOV-1997 US 60/066453, 25-NOV-1997 US 60/066840 PI
WILLIAM I WOOD, AUSTIN L GURNEY, AUDREY GODDARD, DIANE PENNICA, PI
JIAN ZHENG,
PI JEAN YUAN
PC C12N15/09, A61K45/00, A61P1/00, A61P13/12, A61P17/00, A61P17/06, PC
A61P25/00,
PC A61P25/16, A61P25/28, A61P31/12, A61P35/00, C07K14/47, C07K16/18,
PC C07K19/00,
PC C12N1/19, C12N1/21, C12N5/10//A61K38/00, A61K39/395, A61K39/395,
PC A61P43/00,
PC C12P21/08, (C12N1/19, C12R1:645), (C12N1/21, C12R1:19), (C12N5/10,
PC C12R1:91),
PC C12N15/00, C12N5/00, A61K37/02, (C12N5/00, C12R1:91) CC
Secretory and transmembrane polypeptide and nucleic acid CC
encoding the same
FH key Location/Qualifiers
FT source 1..1100
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/mol_type="genomic DNA"
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Query Match 99.1%; Score 1090.6; DB 6; Length 1100;
Best Local Similarity 99.6%; Pred. No. 1.5e-264;
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Qy	721	CGGTGACTCAGGTGGACCTTGGCTGTAAACAGGATGGACTGTGGTATCAGATTGGAGT	780
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Qy	781	CGTGAGCTGGGAGTGGGCTGTGTGTGGCCCAATCGCGCCGCTGTACACCAATATCAG	840
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Qy	901	CTCTGGCGCTACTCTTTTCCCTCTTCTCTGGGCTCTCCACTCTCTGGGCGGCTG	960
Db	904	CTCTGGCGCTACTCTTTTCCCTCTTCTCTGGGCTCTCCACTCTCTGGGCGGCTG	963
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DEFINITION	Sequence 256 from patent US 6664376.		
ACCESSION	AR439172		
VERSION	AR439172.1 GI:42665021		
KEYWORDS			
SOURCE	Unknown.		
ORGANISM	Unknown.		
REFERENCE	1 (bases 1 to 1100)		
AUTHORS	Ashkenazi, A., Botstein, D., Deenoyers, L., Eaton, D.L., Ferrara, N., Filvaroff, E., Fong, S., Gao, W.-Q., Gerber, H., Gerritsen, M.E., Goddard, A., Godowski, P.J., Grimaldi, J.C., Gurney, A.L., Hillan, K.J., Kljavin, I.J., Mather, J.P., Pan, J., Paoni, N.F., Roy, M.A., Stewart, T.A., Tumas, D., Williams, P.M. and Wood, W.I.		
TITLE	Secreted and transmembrane polypeptides and nucleic acids encoding the same		
JOURNAL	Patent: US 6664376-A 256 16-DEC-2003;		
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Best Local Similarity	99.6%;	Pred. No. 1.5e-264;	
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Qy	61	GGCTGGAATCAGGAAGCCGGAATGCGCAGGAGGCGGCGCGCTTATCAGGACCATCGGCGC	120

RESULT 9

Db	64	GGCTGGAATCAGGAAGCCGGAATGCGCAGGAGGCGCGCTTATCAGGACCATCGCGCGC	123
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Qy	301	GTGGATGTCCTGAGTTGGCCAGCTGATTCATGCTTCCATGCTTCTGGAGCTCGAGGCTTA	360
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Qy	361	CTACACCCGTTACTCTGATCGAATATCTATCTGAGCCCTCGCTACTCGGGGAATTCACC	420
Db	364	CTACACCCGTTACTCTGATCGAATATCTATCTGAGCCCTCGCTACTCGGGGAATTCACC	423
Qy	421	CTATGACATTTGCCCTTGGTGAAGCTGTCTGACCTGTCACTACACTAAACACATTCAGCC	480
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Db	484	CATCTGTCCTCCAGCCCTCCACATTTGAGTTTGAGAACCGGACAGACTGCTGGGTGACTGG	543
Qy	541	CTGGGGGTACATCAAGAGGATGAGGACATGCCATCTCCCCACACCTCCAGGAAGTTCA	600
Db	544	CTGGGGGTACATCAAGAGGATGAGGACATGCCATCTCCCCACACCTCCAGGAAGTTCA	603
Qy	601	GGTCGCCATCATAAACAACTCTATGTGCAACACCTCTTCTCTCAAGTACAGTTTCGCCAA	660
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Qy	661	GGACATCTTTGGAGACATGTTTGTGTGGCAATGCCAAGCGGGAAGATGCTGCTTT	720
Db	664	GGACATCTTTGGAGACATGTTTGTGTGGCAATGCCAAGCGGGAAGATGCTGCTTT	723
Qy	721	CGGTGACTCAGGTGGACCTTGGCTGTAAACAGGATGGACTGTGGTATCAGATTGGAGT	780
Db	724	CGGTGACTCAGGTGGACCTTGGCTGTAAACAGGATGGACTGTGGTATCAGATTGGAGT	783
Qy	781	CGTGAGCTGGGAGTGGGCTGTGTGGCCCAATCGGCCGCTGTCTACACCAATATCAG	840
Db	784	CGTGAGCTGGGAGTGGGCTGTGTGGCCCAATCGGCCGCTGTCTACACCAATATCAG	843
Qy	841	CCACCACCTTTGAGTGGAATCCAGAAAGCTGATGGCCCGAGAGTGGCATGTCCAGCCAGACCC	900
Db	844	CCACCACCTTTGAGTGGAATCCAGAAAGCTGATGGCCCGAGAGTGGCATGTCCAGCCAGACCC	903
Qy	901	CTCTGGCGCTACTCTTTTCCCTCTTCTCTGGGCTCTCCCACTCTCTGGGCGGCTG	960
Db	904	CTCTGGCGCTACTCTTTTCCCTCTTCTCTGGGCTCTCCCACTCTCTGGGCGGCTG	963
Qy	961	AGCCTACTGAGCCCATGCGAGCTGGGCGCACTGCCAAGTCAGGCCCTGGTTCTCTCTG	1020
Db	964	AGCCTACTGAGCCCATGCGAGCTGGGCGCACTGCCAAGTCAGGCCCTGGTTCTCTCTG	1023
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AR473192	LOCUS	AR473192	Sequence 256 from patent US 6686451.	1100 bp	DNA	linear	PAT 20-FEB-2004
DEFINITION	AR473192	Sequence 256 from patent US 6686451.					
ACCESSION	AR473192	Sequence 256 from patent US 6686451.					
VERSION	AR473192.1	GI:42708567					
KEYWORDS	Unknown.						
SOURCE	Unknown.						
ORGANISM	Unclassified.						
REFERENCE	1 (bases 1 to 1100)						
AUTHORS	Denoyers,L., Goddard,A., Godowski,P.J., Gurney,A.L., Mather,J.P., Williams,P.M., and Wood,W.I.						
TITLE	Secreted and transmembrane polypeptides and nucleic acids encoding the same						
JOURNAL	Patent: US 6686451-A 256 03-FEB-2004;						
FEATURES	Location/Qualifiers						
source	1..1100						
	/organism="unknown"						
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Qy	61	GGCTGGACTCAGGAAGCGGAGTGCAGAGAGCGCGCGCGCTTATCAGACCATCAGCGCGCG	120				
Db	64	GGCTGGACTCAGGAAGCGGAGTGCAGAGAGCGCGCGCGCTTATCAGACCATCAGCGCGCG	123				
Qy	121	ACGGGTTCATACGTCGCGCATCGTGGGTGGAGAGAGCCCGAACTCCGGGGTGGCGCGTG	180				
Db	124	ACGGGTTCATACGTCGCGCATCGTGGGTGGAGAGAGCCCGAACTCCGGGGTGGCGCGTG	183				
Qy	181	GCAGGGAGAGCCTGCGCCTGTGGGATTCACAGTATGGGAGTGAAGCTGCTCAGCCACCG	240				
Db	184	GCAGGGAGAGCCTGCGCCTGTGGGATTCACAGTATGGGAGTGAAGCTGCTCAGCCACCG	243				
Qy	241	CTGGGCACTACCGCGGGGCACTGCTTTGAAACCTATAGTGAACCTTATAGTGAATCCTCCGG	300				
Db	244	CTGGGCACTACCGCGGGGCACTGCTTTGAAACCTATAGTGAACCTTATAGTGAATCCTCCGG	303				
Qy	301	GTGATGTCAGTTGCGCAGCTGCGCAGCTGACTCCATGCCATCTCTTCGGAGCCTGCAGGCTTA	360				
Db	304	GTGATGTCAGTTGCGCAGCTGACTCCATGCCATCTCTTCGGAGCCTGCAGGCTTA	363				
Qy	361	CTACACCGCTTACTTCGTATCGAATATCTATCTGAGCCCTCGCTACCTGGGGAATTCACC	420				
Db	364	CTACACCGCTTACTTCGTATCGAATATCTATCTGAGCCCTCGCTACCTGGGGAATTCACC	423				
Qy	421	CTATGACATTCCTTGTGTGAAGCTGTCTGCAACCTGTCACTTACACTAAACACATCCAGCC	480				
Db	424	CTATGACATTCCTTGTGTGAAGCTGTCTGCAACCTGTCACTTACACTAAACACATCCAGCC	483				
Qy	481	CATCTGTCTCAGGCTCCACATTTGAGTTTGAGAACCGGACAGACTGCTGGGTGACTGG	540				
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Qy	541	CTGGGGGTACATCAAGAGATGAGGCACATGCCATCTCTCCACACCTCTCAGGGAAGTTCA	600				
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Qy	601	GGTCGCCCATATAAACCACTTATGTGCAACCACTCTTCTCAAGTACAGTTTTCGCAA	660				
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Qy	421	CTATGACATTTGCCCTTGGTGAAGCTGTCTGCACCTGTCA	CTCCTACACTAAACACATCCAGCC	480
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Qy	481	CATCTGTCTCGAGCCCTCCACATTTGAGTTTGAGAACCGGACAGACAGCTGTCTGGGTGACTGG	540	
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Db	844	CCACCACTTTGAGTGGATCCAGAAAGCTGATGGCCAGAGTGGCATGTCCAGCCAGACCC	903	
Qy	901	CTCTGCGCGCTACTCTTTTCCCTCTTCTGTGGCTCTCCCACTCTGGGGCGGTCTG	960	
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Qy	1021	TCCTGTTTGGTAAATAACACATTCAGTTGATGCTTGTGAGGGCAATTTTCAAAAAAAA	1080	
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DEFINITION	Sequence 256 from patent US 6767995.	DNA	linear	PAT 08-OCT-2004
ACCESSION	AR566211			
VERSION	AR566211.1	GI:53983121		
KEYWORDS	Unknown.			
SOURCE	Unknown.			
ORGANISM	Unknown.			
REFERENCE	1 (bases 1 to 1100)			

AUTHORS	Desnoyers, L., Goddard, A., Godowski, P.J., Gurney, A.L. and Wood, W.I.									
TITLE	Secreted and transmembrane polypeptides and nucleic acids encoding the same									
JOURNAL	Patent: US 6767995-A 256 27-JUL-2004;									
FEATURES	Location/Qualifiers									
source	1. .1100									
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	Best Local Similarity	99.6%	Pred. No. 1.5e-264;							
	Matches 1093;	Conservative	0;	Mismatches	4;	Indels	0;	Gaps	0;	
Qy	1	CGCGGAGAGAGGCCATGCGCGCGCGGGGGCGCTGCTGCTGCGCGTGTGCTGGCTCG	60							
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Qy	61	GGCTGGACTCAGGAAGCCGAGTGCAGAGAGCGCGCGCTTATCAGGACATGCGGCG	120							
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Qy	181	GCAGGGAGCTCGCGCTGTGGGATTCACACGTATGCGGAGTGAAGCTGTCTCAGCCACCG	240							
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Db	244	CTGGGCACTCA CGGCGCGCACTGCTTTGAAAACCTATAGTAGCACTTATAGTATCCCTCGG	303							
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Qy	361	CTACACCGCTTACTTCCGTATCGAATATCTATCTGAGCCCTCGTACCTGGGGGAATTCAC	420							
Db	364	CTACACCGCTTACTTCCGTATCGAATATCTATCTGAGCCCTCGTACCTGGGGGAATTCAC	423							
Qy	421	CTATGACATTCCTTGTGTGAAGCTGTCTGCACTGTCACTTACCTAAACACATTCAGCC	480							
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DEFINITION Sequence 256 from Patent WO0104311.
ACCESSION AX697665
VERSION AX697665.1 GI:29498754
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE
AUTHORS Ashkenazi,A.J., Botstein,D., Desnovers,L., Eaton,D.L., Ferrara,N.,
Filvaroff,E., Fong,S., Gao,W.Q., Gerber,H., Gerritsen,M.E.,
Goddard,A., Godowski,P.J., Grimaldi,C.J., Gurney,A.L., Hillan,K.J.,
KlJavin,I.J., Mather,J.P., Pan,J., Paoni,N.P., Roy,M.A.,
Stewart,T.A., Tamas,D., Williams,P.M. and Wood,W.I.
SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS
ENCODING THE SAME

JOURNAL Patent: WO 0104311-A 256 18-JAN-2001;
Genentech Inc. (US)

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Query Match 99.1%; Score 1090.6; DB 6; Length 1100;
Best Local Similarity 99.6%; Pred. No. 1.5e-264;
Matches 1093; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 CGCGGAGAGGAGGCGATGGGCGCGCGCGCGCTGCTGCTGGCGCTGCTGCTGGCTCG 60
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RESULT 13
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LOCUS Secretary and transmembrane polypeptide and nucleic acid encoding
DEFINITION the same.
ACCESSION BD075578
VERSION BD075578.1 GI:22621181
KEYWORDS JP 2001516580-A/211.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE
AUTHORS Wood,W.I., Gurney,A.L., Goddard,A., Penica,D., Chen,J. and Yuan,J.
TITLE Secretary and transmembrane polypeptide and nucleic acid encoding
the same
JOURNAL Patent: JP 2001516580-A 211 02-OCT-2001;
GENENTECH INC
COMMENT OS Homo sapiens (human)

Schoenfeld, J., Seshagiri, S., Simmons, L., Singh, J., Smith, V., Stinson, J., Vagte, A., Vandlen, R., Watanabe, C., Wiedel, D., Woods, K., Xie, M.H., Yansura, D., Yi, S., Yu, G., Yuan, J., Zhang, M., Zhang, Z., Goddard, A., Wood, W.I. and Godowski, P.
The Secreted Protein Discovery Initiative (SPDI), a Large-Scale Effort to Identify Novel Human Secreted and Transmembrane Proteins: A Bioinformatics Assessment
Genome Res. 13 (10), 2265-2270 (2003)

JOURNAL

PUBMED

12975309

2 (bases 1 to 1100)

REFERENCE

Clark, H.F.

Direct Submission

Submitted (01-AUG-2003)

Department of Bioinformatics, Genentech,

Inc., 1 DNA Way, South San Francisco, CA 94080, USA

Location/Qualifiers

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TITLE

The Secreted Protein Discovery Initiative (SPDI), a Large-Scale Effort to Identify Novel Human Secreted and Transmembrane Proteins: A Bioinformatics Assessment

JOURNAL

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Location/Qualifiers

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TITLE

The Secreted Protein Discovery Initiative (SPDI), a Large-Scale Effort to Identify Novel Human Secreted and Transmembrane Proteins: A Bioinformatics Assessment

JOURNAL

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Location/Qualifiers

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TITLE

The Secreted Protein Discovery Initiative (SPDI), a Large-Scale Effort to Identify Novel Human Secreted and Transmembrane Proteins: A Bioinformatics Assessment

JOURNAL

PUBMED

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2 (bases 1 to 1100)

REFERENCE

Clark, H.F.

Direct Submission

Submitted (01-AUG-2003)

Department of Bioinformatics, Genentech,

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TITLE

The Secreted Protein Discovery Initiative (SPDI), a Large-Scale Effort to Identify Novel Human Secreted and Transmembrane Proteins: A Bioinformatics Assessment

JOURNAL

PUBMED

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REFERENCE

Clark, H.F.

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Department of Bioinformatics, Genentech,

Inc., 1 DNA Way, South San Francisco, CA 94080, USA

Location/Qualifiers

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20. .964

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STFEFRNTDCWVTGMYKEDPALPHTLQEVQVAINNSMCHLFLKYSFRKDF

GDVYCAGNAQSGDKADGSGGLACNKGILWYQIGVSVGVCGRNRPQVYTNISH

HFEWIKLMAQSGMSQPPSPWLLPFLWALPLLPV"

TITLE

The Secreted Protein Discovery Initiative (SPDI), a Large-Scale Effort to Identify Novel Human Secreted and Transmembrane Proteins: A Bioinformatics Assessment

JOURNAL

PUBMED

12975309

2 (bases 1 to 1100)

REFERENCE

Clark, H.F.

Direct Submission

Submitted (01-AUG-2003)

Department of Bioinformatics, Genentech,

Inc., 1 DNA Way, South San Francisco, CA 94080, USA

Location/Qualifiers

1. .1100

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

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/product="PRSS21"

/protein_id="AAQ89393.1"

/db_xref="GI:37183186"

/translation="MGARGALLALLARAGLRKPEQEARPLSGPGRVITSRVIG

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/mol_type="mRNA"

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HFEWIKLMAQSGMSQPPSPWLLPFLWALPLLPV"

TITLE

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JOURNAL

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REFERENCE

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Inc., 1 DNA Way, South San Francisco, CA 94080, USA

Location/Qualifiers

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/organism="Homo sapiens"

/mol_type="mRNA"

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Search completed: March 5, 2005, 04:37:28
Job time : 5122.55 secs

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QY	601	GGTCGCCATCAATAACAACTCTATGTGCAACACCTCTTCTCAAGTACAGTTTCCGCAA	660
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QY	781	CGTGAGCTGGGAGTGGGCTGTGGTCCGCCCAATCGGCCCGGTGTCTACACCAATATCAG	840
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Db	835	CCACCATTGTAGTGGATCCAGAGCTGATGGCCGAGATGGCATGTCCGAGCCAGACCC	894
QY	901	CTCTGGCGGCTACTCTTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	960
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QY	961	AGCCTACCTGAGCCCATCAGCCTGGGCCCATCTGCCAAGTCAGGCCCTGGTCTCTCTG	1020
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QY	1021	TCTTGTGGTAAATAACACATTCAGTTGATGCCCTTGCAGGGCAATTTTCAAAAAAAA	1080
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QY	1081	AAAAAAAAAAAAAAAAAAAA 1100	
Db	1075	AAAAAAAAAAAAAAAAAAAA 1094	

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 27, 2005, 20:11:50 , Search time 25.5815 Seconds
(without alignments)
1181.014 Million cell updates/sec

Title: US-10-040-647-6
Perfect score: 1728
Sequence: 1 MGARGALLALLARAGLRK.....PSWPLLPFLMALPLLPV 314

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : PIR 79:*

1: Pir1:*

2: Pir2:*

3: Pir3:*

4: Pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	579.5	33.5	343	1 A57014	proctasin (EC 3.4.21.1)
2	523.5	30.3	270	2 S56160	mast cell tryptase
3	513.5	29.7	638	1 KQMSPL	plasma kallikrein
4	513	29.7	275	2 C35863	tryptase (EC 3.4.21.1)
5	511	29.6	276	2 A38654	mast cell proteinase
6	510	29.5	275	2 A35863	tryptase (EC 3.4.21.1)
7	510	29.5	638	1 KQRTPL	plasma kallikrein
8	509	29.5	273	2 A47246	tryptase (EC 3.4.21.1)
9	509	29.5	275	2 B35863	tryptase (EC 3.4.21.1)
10	509	29.5	275	2 A32410	tryptase (EC 3.4.21.1)
11	507	29.3	638	1 KQHUP	plasma kallikrein
12	499	28.9	274	2 JC4171	tryptase (EC 3.4.21.1)
13	498.5	28.8	274	2 A45754	tryptase (EC 3.4.21.1)
14	478.5	27.7	625	1 KFHU1	coagulation factor
15	476.5	27.6	417	1 S00845	hepsin (EC 3.4.21.1)
16	474.5	27.5	366	2 JE0105	testicular serine
17	457.5	26.5	415	1 A34170	acrosin (EC 3.4.21.1)
18	457.5	26.5	436	2 A34170	acrosin (EC 3.4.21.1)
19	454.5	26.3	810	1 PLHU	plasmin (EC 3.4.21.1)
20	454	26.3	855	2 JC7731	membrane-bound arg
21	453	26.2	455	2 A61545	plasmin (EC 3.4.21.1)
22	451.5	26.1	237	2 S88702	tryptase (EC 3.4.21.1)
23	446	25.8	416	1 S33777	hepsin (EC 3.4.21.1)
24	443.5	25.7	4548	1 S00657	apoptein(a) (EC 3.4.21.1)
25	443	25.6	1113	2 JE0315	low-density lipopr
26	441	25.5	1035	1 A43090	enteropeptidase (E
27	439.5	25.4	421	2 S29599	acrosin (EC 3.4.21.1)
28	439	25.4	367	2 JE0104	testicular serine
29	438	25.3	1019	1 A56318	enteropeptidase (E

RESULT 1

A57014

Proctasin (EC 3.4.21.1) precursor - human

C;Species: Homo sapiens (man)

C;Date: 24-May-1996 #sequence_revision 24-May-1996 #text_change 09-Jul-2004

C;Accession: A57014; A54866

R;Yu, J.X.; Chao, L.; Chao, J.

J. Biol. Chem. 270, 13483-13489, 1995

A;Title: Molecular cloning, tissue-specific expression, and cellular localization of hum

A;Reference number: A57014; MUID:95286644; PMID:7768952

A;Accession: A57014

A;Status: translated from GB/EMBL/DBJ

A;Molecule type: mRNA

A;Residues: 1-343 <RES>

A;Cross-references: UNIPROT:Q16651; GB:L41351; NID:g862304; PIDN:AAC41759.1; PID:g862305

A;Experimental source: prostate

A;Note: parts of this sequence were determined by protein sequencing

R;Yu, J.X.; Chao, L.; Chao, J.

J. Biol. Chem. 269, 18843-18848, 1994

A;Title: Proctasin is a novel human serine proteinase from seminal fluid. Purification, t

A;Reference number: A54866; MUID:94308140; PMID:8034638

A;Accession: A54866

A;Molecule type: protein

A;Residues: 45-64 <YUA>

C;Genetics:

A;Gene: GDB:PRSS8

A;Cross-references: GDB:676446; OMIM:600823

A;Map position: 16p11.2-16p11.2

C;Superfamily: trypsin; trypsin homology

C;Keywords: glycoprotein; hydrolase; serine proteinase; transmembrane protein

F;1-32/Domain: signal sequence #status predicted <SIG>

F;33-44, 45-343/Product: proctasin #status predicted <MAT>

F;33-44/Domain: proctasin light chain #status predicted <CHL>

F;45-281/Domain: proctasin heavy chain #status predicted <CHH>

F;45-281/Domain: trypsin homology <TRY>

F;323-341/Domain: transmembrane #status predicted <TM1>

F;37-154, 70-86, 168-244, 201-223, 234-262/Disulfide bonds: #status predicted

F;85, 134, 238/Active site: His, Asp, Ser #status predicted

F;159/Binding site: carbohydrate (Asn) (covalent) #status experimental

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Best Local Similarity 41.0%; Pred. No. 2.8e-44;

Matches 141; Conservative 45; Mismatches 101; Indels 57; Gaps 12;

Qy 6 ALLIALLARAGLRKPSQEAAPLSGCGRRVITSRVGGEDALGWPQGSRLWDSH 65

Db 16 AILLYLGLLRSG-TGAEAE-----PCG-VAQARITGGSSAVAGQWPQVSYIEGVH 68

Qy 66 VCGVSLLSHRWALTAACFPETYSLSLSDPS-----GNMVQFG--OLTSMPSPFWSLQAVYTR 118

Db 69 VCGSVLSVEQWVLSAHC-----PSEHKEAYEVKLGAKHQLDS-----YSEDAKVST 116

QY 119 YFVSNLYSPRYL-GNSPYDIALVKLSAPVYTKHQIPICLOASTPEFENRTDCWVTGW 177
Db 117 --LKDIIPHSYLOEGSQDIALQLSRPITFSYIRPICLPAANASFPNGLHCTVTGW 174
QY 178 YIKEDALPSHTLOEQVOVAIINNSMCNHLF----LKYSFRKDFGDMVCAAGNAGQGDAC 234
Db 175 HVAFPSVLLTFKELQLOEVLISRETNCNLYNDAKPEEPHFVQEDMVCAGYVEGGKDAC 234
QY 235 FPGSGGLACNKGDLVQIGVSWGVCGRPNRPGVVYTNISHPFEWQ-----KLMA 286
Db 235 QGSGGLPLSCPVEGLWLTGIVSGDAGARNRPGVYTLASSVASYMTQSKVTELOPRVP 294
QY 287 QSGMSQDPSPW-----PLLPPLMALPLGP 313
Db 295 QTQESQDNLGSHLAFSSAPAGLLRPIPLPLGLALGLSP 338
RESULT 2
S56160
mast cell tryptase precursor - Mongolian jird
C;Species: Meriones unguiculatus (Mongolian jird)
C;Date: 27-Oct-1995 #sequence_revision 03-Nov-1995 #text_change 09-Jul-2004
C;Accession: S56160
R;Murakumo, Y.; Ide, H.; Itoh, H.; Tomita, M.; Kobayashi, T.; Maruyama, H.; Horii, Y.; N
Biochem. J. 309, 921-926, 1995
A;Title: Cloning of the cDNA encoding mast cell tryptase of Mongolian gerbil, Meriones u
A;Reference number: S56160; MUID:95366971; PMID:7639711
A;Accession: S56160
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-270 <MUR>
A;Cross-references: UNIPROT:P50342; EMBL:D31789; NID:9517122; PIDN:BA06598.1; PID:95171
C;Superfamily: trypsin; trypsin homology
F;26-262/Domain: trypsin homology <TRY>
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Best Local Similarity 40.2%; Pred. No. 2.2e-39;
Matches 117; Conservative 37; Mismatches 92; Indels 45; Gaps 9;
QY 7 LLLALLARAGLRKPEQEAAPLSPGCGRRVITSRIYVGGDAELGRWPGQSLR---LW 62
Db 5 LLLALPLFLMHRSPFLQEWG-----IVGGQAPGNKRWQVSLRANETYW 50
QY 63 DSHVCGVSLLSHRWALTAACFFETYSLDSPSGMMVQFGOLTSMPFSWLQAYTRYF-- 120
Db 51 -RHFCGGLIHPQWVLTAAHC--VGPTIADENKRVQ-----LRKQLYYHDH 95
QY 121 ---VSNLYSPRYLGNSSPYDIALVKLSAPVYTKHQIPICLOASTPEFENRTDCWVTGW 176
Db 96 LLAWSRIITHTFTYATQNGADIALLELKNPVTNISHVPSLPPASSETFPGTLCWVTGW 155
QY 177 GYIKEDALPSHTLOEQVOVAIINNSMCNHLFLKYSFRKDFGDMVCAAGNAGQGD 232
Db 156 GNINDVSLPFPPLFKEVQVPPVENQLCDLKYHGVTGTGNIHIVRDMLCAGNE--GHD 213
QY 233 ACFGDSGGPLACNKGDLVQIGVSWGVCGRPNRPGVVYTNISHPFEWQ 283
Db 214 SCQDGGGLVCKVNGTWTQAGVVSWECCALPNRPGIYTRVYLDWIHR 264
RESULT 3
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plasma kallikrein (EC 3.4.21.34) precursor - mouse
C;Species: Mus musculus (house mouse)
C;Date: 30-Sep-1992 #sequence_revision 30-Sep-1992 #text_change 09-Jul-2004
C;Accession: A36557
R;Seidman, N.G.; Sawyer, N.; Hamelin, J.; Mion, P.; Beaubien, G.; Brachpapa, L.; Rochemont
DNA Cell Biol. 9, 737-748, 1990
A;Title: Mouse plasma kallikrein: cDNA structure, enzyme characterization, and comparis
A;Reference number: A36557; MUID:91090844; PMID:2264928
A;Accession: A36557
A;Molecule type: mRNA
A;Residues: 1-638 <SEI>

A;Cross-references: UNIPROT:P26262; GB:M58588; NID:G200358; PIDN:AAA63393.1; PID:G200359
A;Note: part of this sequence, including the amino ends of both the heavy and light chain
C;Comment: This protein, synthesized in the liver, circulates as a noncovalent complex w
C;Comment: The zymogen is activated by factor XIIa, which cleaves the molecule into a li
are linked by one or more disulfide bonds.
C;Superfamily: coagulation factor XI; trypsin homology
C;Keywords: blood coagulation; duplication; fibrinolysis; glycoprotein; hydrolase; inflan
F;1-19/Domain: signal sequence #status predicted <SIG>
F;20-390/Product: plasma kallikrein heavy chain #status experimental <HCH>
F;20-109/Domain: apple repeat <AP1>
F;110-199/Domain: apple repeat <AP2>
F;200-289/Domain: apple repeat <AP3>
F;291-380/Domain: apple repeat <AP4>
F;391-638/Product: plasma kallikrein light chain #status experimental <LCH>
F;391-621/Domain: trypsin homology <TRY>
F;21-104, 47-77, 51-57, 111-194, 137-166, 141-147, 201-284, 227-256, 231-237, 292-375, 318-347, 322-
F;127, 215, 308, 396, 494/Binding site: carbohydrate (Asn) (covalent) #status predicted
F;434, 483, 578/Active site: His, Asp, Ser #status predicted
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Best Local Similarity 40.2%; Pred. No. 5e-38;
Matches 101; Conservative 42; Mismatches 85; Indels 23; Gaps 8;
QY 38 ITRSVIGGEDAELGRWPGQSLR---LWDSHVCGVSLLSHRWALTAACFE--TYSGLSD 92
Db 387 INARIVGGTNASLGEWPGWQSLQVQLVSTQLCGSGIIGRQWVLTAAHCFDGIYPDVMR 446
QY 93 PSCMWVQFGOLT-SMPSFWSLQAYTRYFVSNLYSPRY-LGNSSPYDIALVKLSAPVY 150
Db 447 IYGGILSLSEITKETF9-----SR--IKELIIHQYKVSNGVDIALIKQLTPLNYT 496
QY 151 KHTQPICLQASTPEFENRTDCWVTGNGYTKEDALPSHTLOEQVOVAIINNSMCNHLFLK 210
Db 497 EFQKPICLPSKADNTNITNCWVTGNGYTKEQG--ETQNILQKATIPLVNEBCQKKYRD 554
QY 211 YSRKDFGDMVCAAGNAGQGDACFCGSLACNKGDLVQIGVSWGVCGRPNRPGV 270
Db 555 YVINK-----QMCAGYKEGTDACKGDSGGLVCKHSGRWQLVGTISWEGCGRQKQPGV 610
QY 271 YTNISHPFEW 281
Db 611 YTKVSEYMDWI 621
RESULT 4
C35863
tryptase (EC 3.4.21.59) III precursor - human
C;Species: Homo sapiens (man)
C;Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #text_change 07-Mar-2003
C;Accession: C35863; E35863; A38893
R;Vanderslice, P.; Ballinger, S.M.; Tam, E.K.; Goldstein, S.M.; Craik, C.S.; Caughey, G.;
Proc. Natl. Acad. Sci. U.S.A. 87, 3811-3815, 1990
A;Title: Human mast cell tryptase: multiple cDNAs and genes reveal a multigene serine pr
A;Reference number: A35863; MUID:90251647; PMID:2187193
A;Accession: C35863
A;Molecule type: mRNA
A;Residues: 9-275 <VAN>
A;Accession: E35863
A;Molecule type: DNA
A;Residues: 1-9 <VA2>
A;Cross-references: GB:M33494; NID:G3927804; PIDN:AAC83172.1; PID:G339977
A;Note: the first nine residues of this sequence are inferred from genomic DNA of tryptat
R;Vanderslice, P.
submitted to GenBank, April 1990
A;Reference number: A38893
A;Accession: A38893
A;Molecule type: mRNA
A;Residues: 9-131, 'K', 132-275 <VA3>
A;Cross-references: GB:M33493; NID:G339984; PIDN:AAA36780.1; PID:G339985
C;Superfamily: trypsin; trypsin homology
C;Keywords: hydrolase; serine proteinase; zymogen
F;1-21/Domain: signal sequence #status predicted <SIG>
F;22-30/Domain: activation peptide #status predicted <ACT>

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Db 5 LLLALPVLASRA-----YAAPAQALQRV---GIVGQAPRSKWPQVSLRVHGP 53
QY 62 -WDSHVCGVLLSHRWALTAAHCFETYSYDLSDPGMMVQFGLTSMPSFWSLQAYTRYF 120
Db 54 YW-MHFCGGLIHPQWLTAHC--VGPDKDLAALRVQRE-----QHLVYQDQL 101
QY 121 --VSNYLSPR-YLGNSPYDIALVKLSAPVYTKHIQPICLQASTFEFENRTDCWVTG 177
Db 102 LPVSRIIVHQFYTAQIAGDIALLEPEPNVSSHVHTVLPASETFPPGMCWVTG 161
QY 178 YKDEALPSPHILQEQVAVIINSMCNHLFLKYSFRK-----IFGDMVCAAGNAQGGKA 233
Db 162 DVDNDRLPFPFLKQKVPIMENHICDAKYHLGAYTGDDVRIVRDDMLCAGNTR--RDS 219
QY 234 CFGDSGGPLACNKGDLWQVGVGCGRPNRPGVYTNISHHFEWI 281
Db 220 CQDGSGLVCKVNGTWLQAGVSWGEGCAQPNRPGIYTRVITYLDWI 267
RESULT 7
KORTPL
Plasma kallikrein (EC 3.4.21.34) precursor - rat
N/Alternate names: Fletcher factor; kininogenin; serum kallikrein
C/Species: Rattus norvegicus (Norway rat)
C/Date: 30-Sep-1992 #sequence revision 30-Sep-1992 #text_change 09-Jul-2004
C/Accession: A39180; A33320; S06851; I53041; S06852
R/Beaubien, G.; Rosinski-Chupin, I.; Mattei, M.G.; Mbikay, M.; Chretien, M.; Seidah, N.G.
Biochemistry 30, 1628-1635, 1991
A/Title: Gene structure and chromosomal localization of plasma kallikrein.
A/Reference number: A39180; MUID:91129236; PMID:1993180
A/Accession: A39180
A/Molecule type: DNA
A/Residues: 1-638 <BEA>
A/Cross-references: UNIPROT:P14272; GB:J05315
A/Note: the authors translated the codon GAG for residue 81 as Gln
R/Seidah, N.G.; Ladenheim, R.; Mbikay, M.; Hamelin, J.; Lutfalla, G.; Rougeon, F.; Lazur
DNA 8, 563-574, 1989
A/Title: The cDNA structure of rat plasma kallikrein.
A/Reference number: A33320; MUID:90091743; PMID:2598771
A/Accession: A33320
A/Status: not compared with conceptual translation
A/Molecule type: mRNA
A/Residues: 1-638 <SEI>
A/Cross-references: GB:M30282; NID:g205010; PIDN:AAA41463.1; PID:g205011
A/Note: part of this sequence, including the amino ends of both the heavy and light chain
R/Paquin, J.; Benjannet, S.; Sawyer, N.; Lazure, C.; Chretien, M.; Seidah, N.G.
Biochim. Biophys. Acta 999, 103-110, 1989
A/Title: Rat plasma kallikrein: purification, NH(2)-terminal sequencing and development
A/Reference number: S06851; MUID:90089457; PMID:2597701
A/Accession: S06851
A/Molecule type: protein
A/Residues: 20-45;391-413 <PAQ>
R/Seidah, N.G.; Ladenheim, R.; Mbikay, M.; Hamelin, J.; Lutfalla, G.; Rougeon, R.; Lazur
DNA Cell Biol. 8, 563-574, 1989
A/Title: The cDNA structure of rat plasma kallikrein.
A/Reference number: I53041
A/Accession: I53041
A/Status: translated from GB/EMBL/DBJ
A/Molecule type: mRNA
A/Residues: 1-638 <RES>
A/Cross-references: GB:M58590; NID:g206721; PIDN:AAA42069.1; PID:g206722
C/Comment: This protein, synthesized in the liver, circulates as a noncovalent complex w
C/Comment: The zymogen is activated by factor XIIa, which cleaves the molecule into a li
are linked by one or more disulfide bonds.
C/Genetics:
A/Gene: PK
C/Superfamily: coagulation factor XI; trypsin homology

C/Keywords: blood coagulation; duplication; fibrinolysis; glycoprotein; hydrolase; inflan
F/1-19/Domain: signal sequence #status predicted <SIG>
F/20-390/Product: plasma kallikrein heavy chain #status experimental <MAT1>
F/20-109/Domain: apple repeat <AP1>
F/110-199/Domain: apple repeat <AP2>
F/200-289/Domain: apple repeat <AP3>
F/291-380/Domain: apple repeat <AP4>
F/391-621/Domain: trypsin homology <TRY>
F/21-104, 47-77, 51-57, 111-194, 137-166, 141-147, 201-284, 227-256, 231-237, 292-375, 318-347, 322-
F/127,215,308,453,459,494/Binding site: carbohydrate (Asn) (covalent) #status predicted
F/396/Binding site: carbohydrate (Asn) (covalent) #status experimental
F/434,483,578/Active site: His, Asp, Ser #status predicted
Query Match 29.5%; Score 510; DB 1; Length 638;
Best Local Similarity 37.7%; Pred. No. 1e-37;
Matches 100; Conservative 47; Mismatches 96; Indels 22; Gaps 7;
QY 30 SPCGRRVITSRIVGGEAELGRWPQGSRLR---LWDSHVCGVSLLSHRWALTAAHCFE- 85
Db 380 SSDCTTK-INARIVGCTNSLGEWPQVSLQVKNHMCQGSIIICRQWILTAAHCFDG 438
QY 86 -TYSYDLSDPGMMVQFGLTSMPSFWSLQAYTRYFVSNYLSPRY-LGNSPYDIALVKL 143
Db 439 IPYDVMRYGGILNLSEITNKTFFSS-----IKELIHHQYKMGSEGYDIALIKL 489
QY 144 SAPVYTKHIQPICLQASTFEFENRTDCWVTGMYIKEDALPSPHTLOEVQVAILNNSM 203
Db 490 QPLNTEFQKPICLPSKADTWIYNCWVTGMYIKERG--ETQNILOKATPIVPNEE 547
QY 204 CNHLFLKYFRKIDFGDMVCAAGNAQGGKACFGDSGGPLACNKGDLWQVGVGWSVGVGCG 263
Db 548 CQKRYRDYVITK---QMICAGYKEGGIDACKGDSGGPLVCKHSGRWQLVGTWSGEGCA 603
QY 264 RPNRPGVYTNISHHFEWIKLMAQS 288
Db 604 RKEQPGVYTKVAEYIDWILEKIQSS 628
RESULT 8
A47246
trypsin (EC 3.4.21.59) 2 - mouse
C/Species: Mus musculus (house mouse)
C/Date: 21-Sep-1993 #sequence revision 18-Nov-1994 #text_change 09-Jul-2004
R/McNeil, H.P.; Reynolds, D.S.; Schiller, V.; Ghildyal, N.; Gurley, D.S.; Austen, K.F.; &
Proc. Natl. Acad. Sci. U.S.A. 89, 11174-11178, 1992
A/Title: Isolation, characterization, and transcription of the gene encoding mouse mast c
A/Reference number: A47246; MUID:93087489; PMID:1454796
A/Accession: A47246
A/Status: preliminary
A/Molecule type: nucleic acid
A/Residues: 1-273 <MCN>
A/Cross-references: UNIPROT:Q02844; GB:I00653; NID:g200518; PIDN:AAA39992.1; PID:g200519
A/Note: sequence extracted from NCBI backbone (NCBIN:119745, NCBIPI:119746)
C/Superfamily: trypsin; trypsin homology
C/Keywords: hydrolase; serine proteinase
F/29-265/Domain: trypsin homology <TRY>
Query Match 29.5%; Score 509; DB 2; Length 273;
Best Local Similarity 42.4%; Pred. No. 4.5e-38;
Matches 114; Conservative 35; Mismatches 86; Indels 34; Gaps 9;
QY 26 AAPLSGCGRRVITSRIVGGEAELGRWPQGSRLRWDSS---HVCQVSLLSHRWALTAAH 82
Db 18 AAP--GPAMTR---EGIVGQEAHGNKWPQVSLRANDTWYMHFCGSLIHPQWVLTAAH 72
QY 83 CFETYSGLDSPSGMMVQFGLTSMPSFWSLQAYTRYF-----VSNYLSPR-YLGNSPY 136
Db 73 C--VGPDAVDENKVRVQ-----LRQYLYVHDHMTVVSQIITHPDFVIVQDGA 118
QY 137 DIALVKLSAPVYTKHIQPICLQASTFEFENRTDCWVTGMYIKEDALPSPHTLOEVQV 196

Qy 178 YIKEDALSPHTLQEVQVAIIINNSCNHLFLKYSPRKD-----IFGDMVCAGNAQGGKDA 233
 Db 162 DVDNDRLRPFPFLKQVKVPIMENHI CDAYHLGAYTGDDVRIVRDDMLCAGNTR--RDS 219
 Qy 234 CGPDSGGPLACNKDGLWYQIGVVSVGVCGRPNRPGVYTNISHHPFWI 281
 Db 220 CQGDSDGGLPVCKVNGTWMQLQGVVSWGEGCAQPNRPGIYTRVYILDWI 267

RESULT 10

A32410
 C:Species: Canis lupus familiaris (dog)
 C>Date: 12-Oct-1989 #sequence_revision 12-Oct-1989 #text_change 09-Jul-2004
 C:Accession: A32410
 R:Vanderslice, P.; Craik, C.S.; Nadel, J.A.; Caughey, G.H.
 Biochemistry 28, 4148-4155, 1989
 A:Title: Molecular cloning of dog mast cell tryptase and a related protease: structural
 A:Reference number: A32410; MUID:89352460; PMID:2504277
 A:Accession: A32410
 A:Molecule type: mRNA
 A:Residues: 1-275 <VAN>
 A:Cross-references: UNIPROT:PI5944; GB:M24664; NID:gl613982; PIDN:AAA30854.1; PID:gl613983
 C:Superfamily: trypsin; trypsin homology
 C:Keywords: hydrolyase; serine proteinase; zymogen
 F:1-21/Domain: signal sequence #status predicted <SIG>
 F:22-30/Domain: activation peptide #status predicted <ACT>
 F:31-275/Product: tryptase #status predicted <MAT>
 F:31-267/Domain: trypsin homology <TRY>
 F:74,121,224/Active site: His, Asp, Ser #status predicted

Query Match 29.5%; Score 509; DB 2; Length 275;
 Best Local Similarity 40.6%; Pred. No. 4.6e-38;
 Matches 116; Conservative 40; Mismatches 98; Indels 32; Gaps 11;

Qy 9 LALLIARAGLRPEGOEAPLSPGCGRRVITSRIVGGEDAELGRWPWQSSLR-----WDS 64
 Db 5 LVLAIALALLGSLVPS-----PAPQALQRY--GIVGGRAPGSKWPQVLSRLKGYW-R 56
 Qy 65 HVCGVSLLSHRWALTAACHFETYSDLSDPSGMMVQFGLTSMPSFWSLQAYYTRYF--VS 122
 Db 57 HICGGSLHPQWLTAACH--VGPNVCPETRVQLRE-----QHLIYQDHLPLPN 105
 Qy 123 NIYLSPR-YLGNSPYDIALVKLSAPVYTKHTQICLQASTFEFENRTDCWVTGMYIKE 181
 Db 106 RIWHENYYTPENGADIALLELDPNVSAHVQVPTLPALQTFPTGTCWVTGWDVHS 165
 Qy 182 DEALSPHTLQEVQVAIIINNSCN-----HLFLKYSFR-KDIFGDMVCAGNAQGGKDACFGD 237
 Db 166 GTPLEPPFPFLKQVKVPVENSMDVQVYHLGLSTGDSGVRIVRDMLCAGNSK--SDSCQGD 223
 Qy 238 SGGPLACNKDGLWYQIGVVSVGVCGRPNRPGVYTNISHHPFIQK 283
 Db 224 SGGPLVCRVGRVWMLQAGVVSWGEGCAQPNRPGIYTRVYILDWIHQ 269

RESULT 11

KQHP
 plasma kallikrein (EC 3.4.21.34) precursor - human
 N;Alternate names: kininogenin; plasma prekallikrein
 C;Species: Homo sapiens (man)
 C>Date: 13-Aug-1986 #sequence_revision 13-Aug-1986 #text_change 09-Jul-2004
 C:Accession: A00921; A37939
 R:Chung, D.W.; Fujikawa, K.; McMullen, B.A.; Davie, E.W.
 Biochemistry 25, 2410-2417, 1986
 A:Title: Human plasma prekallikrein, a zymogen to a serine protease that contains four
 A:Reference number: A00921; MUID:86243359; PMID:3521732
 A:Accession: A00921
 A:Molecule type: mRNA
 A:Residues: 1-638 <CHU>
 A:Cross-references: UNIPROT:P03952; GB:M13143; NID:gl90262; PIDN:AAA60153.1; PID:gl90263
 R:McMullen, B.A.; Fujikawa, K.; Davie, E.W.
 Biochemistry 30, 2050-2056, 1991

C;Comment: This enzyme is basically specific for a connective tissue mast cell, it is up
e-ase inhibitors.

C;Superfamily: trypsin; trypsin homology

C;Keywords: glycoprotein; hydrolase; mast cell; serine proteinase; zymogen

F;1-19/Domain: signal sequence #status predicted <SIG>

F;20-29/Domain: activation peptide #status predicted <ACT>

F;30-274/Product: mast cell tryptase #status predicted <MAT>

F;30-266/Domain: trypsin homology <TRY>

F;73,120,223/Active site: His, Asp, Ser #status predicted

F;131/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 28.9%; Score 499; DB 2; Length 274;
Best Local Similarity 39.3%; Pred. No. 3.6e-37;
Matches 116; Conservative 39; Mismatches 102; Indels 38; Gaps 11;

QY 7 LLALLARAGLRKPESQEAAPLSGPGCORRVITSRIVSGEDAELGRWPHQGSRL----LW 62
||| : | : | : | : | : | : | : | : | : | : | : | : | : | : | :
Db 2 LKLLLLALSPL--ASLVHAAPC--PVKQRV---GIVGGREASESKMPQWSLRFKFSFW 54
||| : | : | : | : | : | : | : | : | : | : | : | : | : | : | :
QY 63 DSHVCVGSLLSHRWALTAACHFETYSDDLSDPSGMVMVQGQLTSMPSFWSLQAAYTRY--- 119
||| : | : | : | : | : | : | : | : | : | : | : | : | : | : | :
Db 55 -MHFCGSLTHLPQWVLTAACHCVGLH--IKSELPFRVQ-----LREQLYLYADQ 99
||| : | : | : | : | : | : | : | : | : | : | : | : | : | : | :
QY 120 --PVSNIYLSPRYLG-NSPDYIALVKLSAPVTYTKHIQICLOASTFEENRTDCWWTGW 176
||| : | : | : | : | : | : | : | : | : | : | : | : | : | : | :
Db 100 LLTVNRTVVHPHYTVTDGDGADIALLEIPNVNSTHIPIISLPASETFFSGTSCWWTGW 159
||| : | : | : | : | : | : | : | : | : | : | : | : | : | : | :
QY 177 GYIKEDALPSPTLQEVQVAIINNSMCHILFLKYSFRRD---IFGDMVCAGNAOGKD 232
||| : | : | : | : | : | : | : | : | : | : | : | : | : | : | :
Db 160 GDIDSDEPLPPYPKLQKVPIVENSLCRKXHTGLYTGDVPVIVQDGMLCAGNTR--SD 217
||| : | : | : | : | : | : | : | : | : | : | : | : | : | : | :
QY 233 ACFDGSGGPLACNKDKGLWYIGVYVSWGVCGGRPNRPBGVYTNISHHPPEWTKLMAQ 287
||| : | : | : | : | : | : | : | : | : | : | : | : | : | : | :
Db 218 SCQDSGGPLVCVKGTWLQAGVSWGEGCAEANRPGIYTRVTYYLDWIHRYPVQ 272
||| : | : | : | : | : | : | : | : | : | : | : | : | : | : | :

RESULT 13

A45754

tryptase (EC 3.4.21.59) alpha precursor - human

C;Species: Homo sapiens (man)

C;Date: 03-Jun-1993 #sequence_revision 03-Jun-1993 #text_change 08-Sep-1997

C;Accession: A45754; B37193

R;Miller, J.S.; Westin, E.H.; Schwartz, L.B.

J. Clin. Invest. 84, 1188-1195, 1989

A;Title: Cloning and characterization of complementary DNA for human tryptase.

A;Reference number: A45754; UID:90009311; PMID:2677049

A;Accession: A45754

A;Molecule type: mRNA

A;Residues: 1-274 <MIL>

A;Cross-references: GB:M30038

R;Miller, J.S.; Moxley, G.; Schwartz, L.B.

J. Clin. Invest. 86, 864-870, 1990

A;Title: Cloning and characterization of a second complementary DNA for human tryptase.

A;Reference number: A37193; UID:90369005; PMID:2203827

A;Accession: B37193

A;Molecule type: mRNA

```
A/Cross-references: GS:M3028
A>Note: the sequence from Fig. 4 is inconsistent with that from Fig. 2 in having 205-Pro
C/Superfamily: trypsin; trypsin homology
C/Keywords: hydrolase; serine proteinase; zymogen
F/1-21/Domain: signal sequence #status predicted <SIG>
F/22-30/Domain: activation peptide #status predicted <ACT>
F/31-274/Product: tryptase I #status predicted <MAT>
F/31-266/Domain: trypsin homology <TRY>
F/74,120,223/Active site: His, Asp, Ser #status predicted
Query Match 28.8%; Score 498.5; DB 2; Length 274;
Best Local Similarity 38.8%; Pred. No. 4e-37;
Matches 111; Conservative 44; Mismatches 96; Indels 35; Gaps 9;
QY 7 LLAL-LLARAGLRKPSQEAAPIGPGRRRVITSRIVGGEDAEIAGRWPWGSLRLWD-- 63
||||| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :||
```

Db 5 LLLALPVLASRAYAPAPVQALQAG-----IVGGQAPRSKWPQVSLRVDRY 54

Qy 64 -SHVCGVSLSHRWALTAACHFETYSYDLSPSGMWVQFGQLTSMPSFWSLQAYTRYF-- 120

Db 55 WMHFCGSLIHPQWLTAACHLG--PDVKDLATERVNSG-----THLYYQDQLLP 102

Qy 121 VSNLYLSPR-YLGNSPVDIALVKLSAPVYTKHTQIPICLOASTFEFENRTDCWTVGXYI 179

Db 103 VSRIMVHPQFYIITGADIALLEEPVNTSSRVHTVWLPAPASFTFFPGMPCWVTGWDV 162

Qy 180 KEDEALSPHTLOSVQVAINNSMCHLFLKYSFRKD-----IFGDMVCAAGQGGKDACF 235

Db 163 DNDPLPPPLPKQVYPMENHICDAKYHLGATGDDVRIIRDMLCAGNSQ--RDSCK 220

Qy 236 GDSGGPLACNKGWLYQGVVSWGCGRPNRPVGYTINSHHFEWI 281

Db 221 GDSGGPLVCKWGTWLGWVGVVSDGCAQPNRPGIYTRVTVYLDWI 266

RESULT 14

KFHUI

coagulation factor Xia (EC 3.4.21.27) precursor [validated] - human

N;Alternate names: antihemophilic factor C; plasma thromboplastin antecedent

C;Species: Homo sapiens (man)

C;Date: 13-Aug-1986 #sequence_revision 26-May-1994 #text_change 09-Jul-2004

C;Accession: A27431; A00920; A37940

R;Asakai, R.; Davie, E.W.; Chung, D.W.

Biochemistry 26, 7221-7228, 1987

A;Title: Organization of the gene for human factor XI.

A;Reference number: A27431; MUID:88107663; PMID:2827746

A;Accession: A27431

A;Molecule type: DNA

A;Residues: 1-625 <ASA>

A;Cross-references: UNIPROT:P03951; GB:M18295

A;Note: the sequence shown follows the authors' translation

R;Fujikawa, K.; Chung, D.W.; Hendrickson, L.E.; Davie, E.W.

Biochemistry 25, 2417-2424, 1986

A;Title: Amino acid sequence of human factor XI, a blood coagulation factor with four tyrosine residues

A;Reference number: A00920; MUID:86243360; PMID:3636155

A;Accession: A00920

A;Molecule type: mRNA

A;Residues: 1-625 <FUJ>

A;Cross-references: GB:M13142; NID:g182832; PIDN:AAA52487.1; PID:g182833

R;McMullen, B.A.; Fujikawa, K.; Davie, E.W.

Biochemistry 30, 2056-2060, 1991

A;Title: Location of the disulfide bonds in human coagulation factor XI: the presence of two intrachain and one interchain disulfide bonds

A;Reference number: A37940; MUID:91152017; PMID:1998667

A;Accession: A37940

A;Molecule type: protein

A;Residues: 28-3335-49, 'X', 51-55, 'X', 57-63, 70-75, 'X', 77-79, 107-109, 'X', 111-112, 132-139, 180-282, 'X', 284, 285-297, 313-316, 'X', 318-319, 320-326, 'X', 328-330, 'X', 347-349, 373, 'X', 375

C;Comment: The proenzyme consists of two identical chains linked by one or more disulfide bonds. The active site, and a heavy chain, which associates with high molecular weight (HMW) kin

C;Genetics:

A;Gene: GDB:F11

A;Cross-references: GDB:119891; OMIM:264900

A;Map position: 4q35-4q35

A;Introns: 19/1; 73/2; 109/1; 162/2; 199/1; 252/2; 289/1; 343/2; 379/1; 435/2; 494/1; 52

C;Function:

A;Description: catalyzes the proteolytic activation of coagulation factor IX

A;Pathway: blood coagulation intrinsic pathway

C;Superfamily: coagulation factor XI; trypsin homology

C;Keywords: blood coagulation; duplication; glycoprotein; hemophilia C; homodimer; hydro

F;1-18/Domain: signal sequence #status predicted <SIG>

F;19-387/Product: coagulation factor Xia heavy chain #status experimental <HCH>

F;19-108/Domain: apple repeat <AP1>

F;199-288/Domain: apple repeat <AP2>

F;199-288/Domain: apple repeat <AP3>

F;290-379/Domain: apple repeat <AP4>

F;388-625/Product: coagulation factor Xia light chain #status experimental <LCH>

F;388-618/Domain: trypsin homology <TRY>

F;20-103,514-581,571-599/Disulfide bonds: #status predicted

F;29/Disulfide bonds: interchain #status experimental

F;46-76,50-56,110-193,136-165,140-146,200-283,226-255,230-236,291-374,317-346,321-327,38(

F;90,126,353,450/Binding site: carbohydrate (Asn) (covalent) #status predicted

F;339/Disulfide bonds: interchain #status predicted

F;387-388/Cleavage site: Arg-11e (coagulation factor Xila) #status experimental

F;431,480,575/Active site: His, Asp, Ser #status predicted

F;491/Binding site: carbohydrate (Asn) (covalent) #status experimental

Query Match 27.7%; Score 478.5; DB 1; Length 625;

Best Local Similarity 40.6%; Pred. No. 6.7e-35;

Matches 102; Conservative 40; Mismatches 86; Indels 23; Gaps 8;

Qy 38 ITSRIVGGEDAEIAGRPWQGSRL--WDSHVCGVSLSHRWALTAACHF---ETYSDL 91

Db 384 IKPRIVGGTASVGEWPQVTLHTTPTQRLHCGGSIIGNQWILTAACHFYGVESPILR 443

Qy 92 DPGWMVQFQGLTSMPSFWSLQAYTRYFYFVSNIYLSPRY-LGNSPYDIALVKLSAPVY 150

Db 444 VYSGILNQ-SEIKEDTSFFGVQ-----EIIHDDQYKMAESGYDIALKLETTVNYT 493

Qy 151 KHIQPICLOASTFEFENRTDCWTVGTVGVIKEDBALSPHTLOSVQVAINNSMCHLFLK 210

Db 494 DSRPICLPKSGDRNVIYTDWTVGTVGVIKEDBALSPHTLOSVQVAINNSMCHLFLK 210

Qy 211 YSRKQIFGDMVCAAGQGGKDACFGDSGGPLACNKGWLYQGVVSWGCGRPNRP 270

Db 549 YRGHK-ITTHMI CAGYREGGKDACFGDSGGPLACNKGWLYQGVVSWGCGRPNRP 270

Qy 271 YTNISHHFEWI 281

Db 608 YTNVVEVDWI 618

RESULT 15

S00845

hepsin (EC 3.4.21.-) - human

C;Species: Homo sapiens (man)

C;Date: 31-Dec-1988 #sequence_revision 31-Dec-1988 #text_change 16-Aug-2004

C;Accession: S00845

R;Levtus, S.P.; Loeb, K.R.; Hagen, F.S.; Kurachi, K.; Davie, E.W.

Biochemistry 27, 1067-1074, 1988

A;Title: A novel trypsin-like serine protease (hepsin) with a putative transmembrane dom

A;Reference number: S00845; MUID:88209431; PMID:2835076

A;Accession: S00845

A;Molecule type: mRNA

A;Residues: 1-417 <LEY>

A;Cross-references: UNIPROT:P05981; EMBL:X07732; NID:G32063; PIDN:CAA30558.1; PID:G32064

C;Genetics:

A;Gene: GDB:HPN; TMPRSS1; hepsin

A;Cross-references: GDB:135685; OMIM:142440

A;Map position: 19q11-19q13.2

C;Superfamily: trypsin homology

C;Keywords: hydrolase; liver; serine proteinase; transmembrane protein

F;23-45/Domain: transmembrane #status predicted <TMN>

F;163-400/Domain: trypsin homology <TRY>

F;188-204,291-359,322-338,349-381/Disulfide bonds: #status predicted

F;203,257,353/Active site: His, Asp, Ser #status predicted

Query Match 27.6%; Score 476.5; DB 1; Length 417;

Best Local Similarity 41.1%; Pred. No. 6.2e-35;

Matches 115; Conservative 30; Mismatches 96; Indels 39; Gaps 11;

Qy 21 PESQEAAPLSPGQRRVI-TSRIVGGDEAEIAGRPWQGSRLRLMDSHVCGVSLSHRWAL 79

Db 141 PRGFPLAAICQDCGRKLPVDRIVGGEDTSIGRPWQVSLRYDGAHLGCGSLSDGWL 200

Qy 80 AAHCFTYSYDLSPSGMWVQFGQLTSMPSFWSLQ-----AYTRYFVSNIYLSPRY 133

Db 201 AAHCFFERNRL--SRNRV-FAGAVAQAPHLQGLGVQVAVVYHGGYLP---FRDPN 254

Qy 134 SPYDIALVKLSAPVYTKHTQIPICLOASTFEFENRTDCWTVGTVGVIKEDBALSPHT 190

Db 255 S-NDIALVHLSPLPLTLEYIQVCLPAAGQALVDGKICTVTGNTQYVGGQAGV----- 308

Qy 191 LOEVQVAIIINSMCNHFLKYSRPRKDI FGD-----MVCAGNAQGGKDACFGDSGGPLAC- 244
Db 309 LQEARVPIISNDVCN-----GADFYGNQIKPKMFCAGVPEGGIDACQDSDGGPFVCE 360
Qy 245 ---NKDGLWYQIGVVSWSVGGGRNRPNGVYTINISHHFEWI 281
Db 361 DSISRTPRWRLCGIVSWGTCALAKQKPGVYTKVSDFREWI 400

Search completed: February 27, 2005, 20:23:27
Job time : 26.5815 secs

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OM protein - protein search, using sw model

Run on: February 27, 2005, 20:22:41 ; Search time 89.2843 Seconds
(without alignments)
1153.685 Million cell updates/sec

Title: US-10-040-647-6
Perfect score: 1728
Sequence: 1 MGARGALLALLARGLRK.....PSWPLFFPPLLWALPLGPV 314

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1385339 seqs, 32804528 residues

Total number of hits satisfying chosen parameters: -1385339

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubaa/PC1_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
- 4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubaa/PC1US_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubaa/US09D_PUBCOMB.pep.*
- 13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubaa/US10D_PUBCOMB.pep.*
- 17: /cgn2_6/ptodata/1/pubaa/US10E_PUBCOMB.pep.*
- 18: /cgn2_6/ptodata/1/pubaa/US11_NEW_PUB.pep.*
- 19: /cgn2_6/ptodata/1/pubaa/US11_NEW_PUB.pep.*
- 20: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1728	100.0	314	14	US-10-040-647-6
2	1723	99.7	314	9	US-09-968-415-3
3	1723	99.7	314	9	US-09-909-320-257
4	1723	99.7	314	9	US-09-885-441-14
5	1723	99.7	314	9	US-09-909-088B-257
6	1723	99.7	314	9	US-09-905-231A-257
7	1723	99.7	314	9	US-09-902-853-257
8	1723	99.7	314	9	US-09-907-824-257
9	1723	99.7	314	9	US-09-907-841-257
10	1723	99.7	314	10	US-09-904-011-257
11	1723	99.7	314	10	US-09-903-640-257
12	1723	99.7	314	10	US-09-908-093-257
13	1723	99.7	314	10	US-09-906-742-257

14	1723	99.7	314	10	US-09-906-838-257	Sequence 257, App
15	1723	99.7	314	10	US-09-907-613-257	Sequence 257, App
16	1723	99.7	314	10	US-09-907-942-257	Sequence 257, App
17	1723	99.7	314	10	US-09-904-859-257	Sequence 257, App
18	1723	99.7	314	10	US-09-909-204-257	Sequence 257, App
19	1723	99.7	314	10	US-09-904-820-257	Sequence 257, App
20	1723	99.7	314	10	US-09-904-786-257	Sequence 257, App
21	1723	99.7	314	10	US-09-906-646-257	Sequence 257, App
22	1723	99.7	314	10	US-09-906-780-257	Sequence 257, App
23	1723	99.7	314	10	US-09-903-786-257	Sequence 257, App
24	1723	99.7	314	10	US-09-902-903-257	Sequence 257, App
25	1723	99.7	314	10	US-09-903-749A-257	Sequence 257, App
26	1723	99.7	314	10	US-09-904-119-257	Sequence 257, App
27	1723	99.7	314	10	US-09-904-956-257	Sequence 257, App
28	1723	99.7	314	10	US-09-902-736-257	Sequence 257, App
29	1723	99.7	314	10	US-09-907-794-257	Sequence 257, App
30	1723	99.7	314	10	US-09-903-943-257	Sequence 257, App
31	1723	99.7	314	10	US-09-904-462-257	Sequence 257, App
32	1723	99.7	314	10	US-09-907-925-257	Sequence 257, App
33	1723	99.7	314	10	US-09-902-692-257	Sequence 257, App
34	1723	99.7	314	10	US-09-903-520-257	Sequence 257, App
35	1723	99.7	314	10	US-09-905-056-257	Sequence 257, App
36	1723	99.7	314	10	US-09-909-064-257	Sequence 257, App
37	1723	99.7	314	10	US-09-904-553-257	Sequence 257, App
38	1723	99.7	314	10	US-09-905-381-257	Sequence 257, App
39	1723	99.7	314	10	US-09-904-485-257	Sequence 257, App
40	1723	99.7	314	10	US-09-905-348-257	Sequence 257, App
41	1723	99.7	314	10	US-09-905-088-257	Sequence 257, App
42	1723	99.7	314	10	US-09-907-575-257	Sequence 257, App
43	1723	99.7	314	10	US-09-905-075-257	Sequence 257, App
44	1723	99.7	314	10	US-09-902-759-257	Sequence 257, App
45	1723	99.7	314	10	US-09-902-634-257	Sequence 257, App

ALIGNMENTS

RESULT 1
US-10-040-647-6
; Sequence 6, Application US/10040647
; Publication No. US2003092154A1
; GENERAL INFORMANT:
; APPLICANT: (US only) ANTALIS Toni Marie and HOOPER John David
; TITLE OF INVENTION: NOVEL MOLECULES
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
; STREET: 400 GARDEN CITY PLAZA
; CITY: GARDEN CITY
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/040,647
; FILING DATE: 07-Jan-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/023,942
; FILING DATE: <Unknown>
; APPLICATION NUMBER: P05101/97
; FILING DATE: 13-FEB-1997
; APPLICATION NUMBER: P0422/97
; FILING DATE: 18-NOV-1997
; APPLICATION NUMBER: International PCT Application
; FILING DATE: 13-FEB-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: DIGIGLIO, FRANK S
; REGISTRATION NUMBER: 31,346

REFERENCE/DOCKET NUMBER: 11168
TELECOMMUNICATION INFORMATION:
TELEPHONE: (516) 742 4343
TELEFAX: (516) 742 4366
TELEX: 230 901 SANS UR
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 314 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-10-040-647-6

Query Match 100.0%; Score 1728; DB 14; Length 314;
Best Local Similarity 100.0%; Pred. No. 3.7e-159;
Matches 314; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGARGALLALLARAGLRKPESQEAAPLSGPCGRRVITSRIVGGDEAELGRWPQGSRLR 60
Db 1 MGARGALLALLARAGLRKPESQEAAPLSGPCGRRVITSRIVGGDEAELGRWPQGSRLR 60

Qy 61 LWDHSHVCGVSLLSHRWALTAHCFETYSDLSDPGVMVQFQGLTSMPSFWSLQAYYTRYF 120
Db 61 LWDHSHVCGVSLLSHRWALTAHCFETYSDLSDPGVMVQFQGLTSMPSFWSLQAYYTRYF 120

Qy 121 VSNILSPRYLGNPSYDIALVKLSAPVYTKHIQICLOASTFEFENRTDCWVTGWGIYK 180
Db 121 VSNILSPRYLGNPSYDIALVKLSAPVYTKHIQICLOASTFEFENRTDCWVTGWGIYK 180

Qy 181 EDEALPSPHTLQEQVVAIINNSMCNHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGDSGG 240
Db 181 EDEALPSPHTLQEQVVAIINNSMCNHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGDSGG 240

Qy 241 PLACNKDGLWYQIGVSVGWGCGRPNRPGVYTNISHHFEWIKLMAQSGMSQDPDPSWPLL 300
Db 241 PLACNKDGLWYQIGVSVGWGCGRPNRPGVYTNISHHFEWIKLMAQSGMSQDPDPSWPLL 300

Qy 301 FPELLWALPLGPV 314
Db 301 FPELLWALPLGPV 314

RESULT 2
US-09-968-415-3
Sequence 3, Application US/09968415
Publication No. US20020086334A1
GENERAL INFORMATION:
APPLICANT: Bandman, Olga
Yue, Henry
Hillman, Jennifer L.
Guegler, Karl J.
Corley, Neil C.
Tang, Tom Y.
Shah, Purvi
TITLE OF INVENTION: HUMAN PROTEASE MOLECULES
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Dr.
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/968,415
FILING DATE: 26-Sep-2001
PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/659,151
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Mohan-Peterson, Sheela
REGISTRATION NUMBER: 41,201
REFERENCE/DOCKET NUMBER: PF-0458 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
TELEFAX: 650-845-4166
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 314 amino acids
TYPE: amino acid
TOPOLOGY: linear
STRAINEDNESS: single
IMMEDIATE SOURCE:
LIBRARY: PROSTUT03
CLONE: 789927
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-968-415-3

Query Match 99.7%; Score 1723; DB 9; Length 314;
Best Local Similarity 99.7%; Pred. No. 1.1e-158;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGARGALLALLARAGLRKPESQEAAPLSGPCGRRVITSRIVGGDEAELGRWPQGSRLR 60
Db 1 MGARGALLALLARAGLRKPESQEAAPLSGPCGRRVITSRIVGGDEAELGRWPQGSRLR 60

Qy 61 LWDHSHVCGVSLLSHRWALTAHCFETYSDLSDPGVMVQFQGLTSMPSFWSLQAYYTRYF 120
Db 61 LWDHSHVCGVSLLSHRWALTAHCFETYSDLSDPGVMVQFQGLTSMPSFWSLQAYYTRYF 120

Qy 121 VSNILSPRYLGNPSYDIALVKLSAPVYTKHIQICLOASTFEFENRTDCWVTGWGIYK 180
Db 121 VSNILSPRYLGNPSYDIALVKLSAPVYTKHIQICLOASTFEFENRTDCWVTGWGIYK 180

Qy 181 EDEALPSPHTLQEQVVAIINNSMCNHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGDSGG 240
Db 181 EDEALPSPHTLQEQVVAIINNSMCNHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGDSGG 240

Qy 241 PLACNKDGLWYQIGVSVGWGCGRPNRPGVYTNISHHFEWIKLMAQSGMSQDPDPSWPLL 300
Db 241 PLACNKDGLWYQIGVSVGWGCGRPNRPGVYTNISHHFEWIKLMAQSGMSQDPDPSWPLL 300

Qy 301 FPELLWALPLGPV 314
Db 301 FPELLWALPLGPV 314

RESULT 3
US-09-909-320-257
Sequence 257, Application US/09909320
Patent No. US20020132240A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.

APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/909/320
CURRENT FILING DATE: 2002-01-04
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 257
LENGTH: 314
TYPE: PRT
ORGANISM: Homo Sapien
US-09-909-320-257

Query Match 99.7%; Score 1723; DB 9; Length 314;
Best Local Similarity 99.7%; Pred. No. 1.1e-158;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGARGALLALLARAGLRKPESQEAAPLSGCGRRVITSRIVGEDAEALGRWPQGSRLR 60
DB 1 MGARGALLALLARAGLRKPESQEAAPLSGCGRRVITSRIVGEDAEALGRWPQGSRLR 60
QY 61 LWDHVCVSVLLSHRWALTAHCFETYSDLSDPGCMVQFQGLTSMPSFWSLQAYYTRYF 120
DB 61 LWDHVCVSVLLSHRWALTAHCFETYSDLSDPGCMVQFQGLTSMPSFWSLQAYYTRYF 120
QY 121 VSNLYLSPRYLGNPSYDIALVKLSAPVYTYTKHIQPICLQASTFFENRTDCWVTGWGYIK 180
DB 121 VSNLYLSPRYLGNPSYDIALVKLSAPVYTYTKHIQPICLQASTFFENRTDCWVTGWGYIK 180
QY 181 EDEALPSPHTLOEQVOVAIINNSMCNHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGDSGG 240
DB 181 EDEALPSPHTLOEQVOVAIINNSMCNHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGDSGG 240

QY 241 PLACNKDGLWYQIGVWSGVGCGRPNRPVGVYTNISHHFEWIOKLMAQSGMSQPDPSWPLL 300
DB 241 PLACNKDGLWYQIGVWSGVGCGRPNRPVGVYTNISHHFEWIOKLMAQSGMSQPDPSWPLL 300
QY 301 FFPLLWALPLLGPV 314
DB 301 FFPLLWALPLLGPV 314
RESULT 4
US-09-885-441-14
Sequence 14, Application US/09885441
Patent No. US20020146407A1
GENERAL INFORMATION:
APPLICANT: Xiao, Yonghong
TITLE OF INVENTION: Regulation of Human Eosinophil Serine
PROTEIN: Protease-1-Like Enzyme
FILE REFERENCE: 04974.00512
CURRENT APPLICATION NUMBER: US/09/885,441
PRIOR FILING DATE: 2001-06-21
PRIOR APPLICATION NUMBER: US 60/212,844
PRIOR FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: US 60/244,171
PRIOR FILING DATE: 2000-10-31
PRIOR APPLICATION NUMBER: US 60/279,766
PRIOR FILING DATE: 2001-03-30
PRIOR APPLICATION NUMBER: PCT/
NUMBER OF SEQ ID NOS: 58
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 14
LENGTH: 314
TYPE: PRT
ORGANISM: Homo sapiens
US-09-885-441-14

Query Match 99.7%; Score 1723; DB 9; Length 314;
Best Local Similarity 99.7%; Pred. No. 1.1e-158;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGARGALLALLARAGLRKPESQEAAPLSGCGRRVITSRIVGEDAEALGRWPQGSRLR 60
DB 1 MGARGALLALLARAGLRKPESQEAAPLSGCGRRVITSRIVGEDAEALGRWPQGSRLR 60
QY 61 LWDHVCVSVLLSHRWALTAHCFETYSDLSDPGCMVQFQGLTSMPSFWSLQAYYTRYF 120
DB 61 LWDHVCVSVLLSHRWALTAHCFETYSDLSDPGCMVQFQGLTSMPSFWSLQAYYTRYF 120
QY 121 VSNLYLSPRYLGNPSYDIALVKLSAPVYTYTKHIQPICLQASTFFENRTDCWVTGWGYIK 180
DB 121 VSNLYLSPRYLGNPSYDIALVKLSAPVYTYTKHIQPICLQASTFFENRTDCWVTGWGYIK 180
QY 181 EDEALPSPHTLOEQVOVAIINNSMCNHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGDSGG 240
DB 181 EDEALPSPHTLOEQVOVAIINNSMCNHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGDSGG 240
QY 241 PLACNKDGLWYQIGVWSGVGCGRPNRPVGVYTNISHHFEWIOKLMAQSGMSQPDPSWPLL 300
DB 241 PLACNKDGLWYQIGVWSGVGCGRPNRPVGVYTNISHHFEWIOKLMAQSGMSQPDPSWPLL 300
QY 301 FFPLLWALPLLGPV 314
DB 301 FFPLLWALPLLGPV 314

RESULT 5
US-09-909-088B-257
Sequence 257, Application US/09909088B
Patent No. US20020146709A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/909/088B
PRIOR FILING DATE: 2001-07-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 257
LENGTH: 314
TYPE: PRT
ORGANISM: Homo Sapien
US-09-909-088B-257
Query Match 99.7%; Score 1723; DB 9; Length 314;
Best Local Similarity 99.7%; Pred. No. 1.1e-158;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
1 MGARGALLALLARAGLRKPESQEAAPLSGCGRRVITSRIVGGDEALGRWPWGSLR 60

Db 1 MGARGALLALLARAGLRKPESQEAAPLSGCGRRVITSRIVGGDEALGRWPWGSLR 60
Qy 61 LWDSHVCGVSLSHRWALTAHCFETYSDLSDPGWMVQFQGLTSMPSFWSLQAYTRYF 120
Db 61 LWDSHVCGVSLSHRWALTAHCFETYSDLSDPGWMVQFQGLTSMPSFWSLQAYTRYF 120
Qy 121 VSNYILSPRYLGNSPYDIALVKLSAPVTVTKHIQPICLQASTFEFENRTDCWVTGWYIK 180
Db 121 VSNYILSPRYLGNSPYDIALVKLSAPVTVTKHIQPICLQASTFEFENRTDCWVTGWYIK 180
Qy 181 EDEALSPHTLOEVQVAIINNMCNHLFLKYSRDKIFGDMVCAGNAQGGKDACFGDSGG 240
Db 181 EDEALSPHTLOEVQVAIINNMCNHLFLKYSRDKIFGDMVCAGNAQGGKDACFGDSGG 240
Qy 241 PLACNKDGLWYQIGVSVGWGCGRRNRPVTVTKHIQPICLQASTFEFENRTDCWVTGWYIK 300
Db 241 PLACNKDGLWYQIGVSVGWGCGRRNRPVTVTKHIQPICLQASTFEFENRTDCWVTGWYIK 300
Qy 301 FPELLMALPLLGPV 314
Db 301 FPELLMALPLLGPV 314
RESULT 6
US-09-905-291A-257
Sequence 257, Application US/09905291A
Patent No. US20020160374A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/905,291A
CURRENT FILING DATE: 2001-07-12
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15

;; PRIOR APPLICATION NUMBER: PCT/US99/21547
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/23089
;; PRIOR FILING DATE: 1999-10-05
;; PRIOR APPLICATION NUMBER: PCT/US99/28214
;; PRIOR FILING DATE: 1999-11-29
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: 1999-11-30
;; PRIOR APPLICATION NUMBER: PCT/US99/28564
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/28565
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: 1999-12-16
;; PRIOR APPLICATION NUMBER: PCT/US99/30911
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US99/30999
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US00/00219
;; PRIOR FILING DATE: 2000-01-05
;; NUMBER OF SEQ ID NOS: 423
;; SEQ ID NO 257
;; LENGTH: 314
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-905-291A-257

Query Match 99.7%; Score 1723; DB 9; Length 314;
Best Local Similarity 99.7%; Pred. No. 1.1e-158;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGARGALLALLARAGLRKPESQEAAPLSPGCGRRVITSRIVGGEAELGRWPQGSRLR 60
Db 1 MGARGALLALLARAGLRKPESQEAAPLSPGCGRRVITSRIVGGEAELGRWPQGSRLR 60

Qy 61 LWDHSVGVSLLSHRWALTAHCFETYSDDLSPSGMWVQFQGLTSMPSFWSLQAYTRYF 120
Db 61 LWDHSVGVSLLSHRWALTAHCFETYSDDLSPSGMWVQFQGLTSMPSFWSLQAYTRYF 120

Qy 121 VSNLYLSPRYLGNPSYDIALVKLSAPVYTYKHIOPICLQASTFFENRTDCWVTGWGVIK 180
Db 121 VSNLYLSPRYLGNPSYDIALVKLSAPVYTYKHIOPICLQASTFFENRTDCWVTGWGVIK 180

Qy 181 EDEALPSHTLQEQVAIINNMCNHLFLKYSFRKDIIFGDMVCAGNAGGKDACFGDSGG 240
Db 181 EDEALPSHTLQEQVAIINNMCNHLFLKYSFRKDIIFGDMVCAGNAGGKDACFGDSGG 240

Qy 241 PLACNKGWLWQIGVWSGVGCGRPNRPGVYTNISHHFEWIKLMAQSGMSQPPSPWPLL 300
Db 241 PLACNKGWLWQIGVWSGVGCGRPNRPGVYTNISHHFEWIKLMAQSGMSQPPSPWPLL 300

Qy 301 FFLMLWALPLGPV 314
Db 301 FFLMLWALPLGPV 314

RESULT 7
US-09-902-853-257
; Sequence 257, Application US/09902853
; Publication No. US20020192659A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.

;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Grimaldi, Christopher J.
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Hillan, Kenneth, J.
;; APPLICANT: KJavin, Ivar J.
;; APPLICANT: Mather, Jennie P.
;; APPLICANT: Pan, James
;; APPLICANT: Paoni, Nicholas F.
;; APPLICANT: Roy, Margaret Ann
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William, I.
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE REFERENCE: 10466-14
;; CURRENT APPLICATION NUMBER: US/09/902,853
;; CURRENT FILING DATE: 2001-07-10
;; PRIOR APPLICATION NUMBER: US/09/665,350
;; PRIOR FILING DATE: 2000-09-18
;; PRIOR APPLICATION NUMBER: US 60/143,048
;; PRIOR FILING DATE: 1999-07-07
;; PRIOR APPLICATION NUMBER: US 60/145,698
;; PRIOR FILING DATE: 1999-07-26
;; PRIOR APPLICATION NUMBER: US 60/146,222
;; PRIOR FILING DATE: 1999-07-28
;; PRIOR APPLICATION NUMBER: PCT/US99/20594
;; PRIOR FILING DATE: 1999-09-08
;; PRIOR APPLICATION NUMBER: PCT/US99/20944
;; PRIOR FILING DATE: 1999-09-13
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/21547
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/23089
;; PRIOR FILING DATE: 1999-10-05
;; PRIOR APPLICATION NUMBER: PCT/US99/28214
;; PRIOR FILING DATE: 1999-11-29
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: 1999-11-30
;; PRIOR APPLICATION NUMBER: PCT/US99/28564
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/28565
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: 1999-12-16
;; PRIOR APPLICATION NUMBER: PCT/US99/30911
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US99/30999
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US00/00219
;; PRIOR FILING DATE: 2000-01-05
;; NUMBER OF SEQ ID NOS: 423
;; SEQ ID NO 257
;; LENGTH: 314
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-902-853-257

Query Match 99.7%; Score 1723; DB 9; Length 314;
Best Local Similarity 99.7%; Pred. No. 1.1e-158;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGARGALLALLARAGLRKPESQEAAPLSPGCGRRVITSRIVGGEAELGRWPQGSRLR 60
Db 1 MGARGALLALLARAGLRKPESQEAAPLSPGCGRRVITSRIVGGEAELGRWPQGSRLR 60

Qy 61 LWDHSVGVSLLSHRWALTAHCFETYSDDLSPSGMWVQFQGLTSMPSFWSLQAYTRYF 120
Db 61 LWDHSVGVSLLSHRWALTAHCFETYSDDLSPSGMWVQFQGLTSMPSFWSLQAYTRYF 120

Qy 121 VSNLYLSPRYLGNPSYDIALVKLSAPVYTYKHIOPICLQASTFFENRTDCWVTGWGVIK 180

Db 121 VSNILSPRYLGNSPYDIALVKLSAPVYTKHIQPICLOASTFEFENRTDCWVTGWSYIK 180
QY 181 EDEALPSPHTLQEVQVAIINNMCNHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGSGG 240
Db 181 EDEALPSPHTLQEVQVAIINNMCNHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGSGG 240
QY 241 PLACNKDGLWYQIGVWSGVCGRPNRPVYTNISHHFEWTKLMAQSGMSQDPSPWPLL 300
Db 241 PLACNKDGLWYQIGVWSGVCGRPNRPVYTNISHHFEWTKLMAQSGMSQDPSPWPLL 300
QY 301 FFPLLMALPLIGPV 314
Db 301 FFPLLMALPLIGPV 314

RESULT 8
US-09-907-824-257
; Sequence 257, Application US/09907824
; Publication No. US20020197671A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gottard, A.
; APPLICANT: Godowski, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,824
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313

; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 257
; LENGTH: 314
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-907-824-257

Query Match 99.7%; Score 1723; DB 9; Length 314;
Best Local Similarity 99.7%; Pred. No. 1.le-158;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGARGALLALLARAGLRKPEQEAAPLSGPCRRVITSRIVGGEDAELGRWPWQSLR 60
Db 1 MGARGALLALLARAGLRKPEQEAAPLSGPCRRVITSRIVGGEDAELGRWPWQSLR 60
QY 61 LWDSHVCGVSLLSHRWALTAHCFETYSDLSDPGMMVQFGQLTSPMPSFWSLQAYTRYF 120
Db 61 LWDSHVCGVSLLSHRWALTAHCFETYSDLSDPGMMVQFGQLTSPMPSFWSLQAYTRYF 120
QY 121 VSNILSPRYLGNSPYDIALVKLSAPVYTKHIQPICLOASTFEFENRTDCWVTGWSYIK 180
Db 121 VSNILSPRYLGNSPYDIALVKLSAPVYTKHIQPICLOASTFEFENRTDCWVTGWSYIK 180
QY 181 EDEALPSPHTLQEVQVAIINNMCNHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGSGG 240
Db 181 EDEALPSPHTLQEVQVAIINNMCNHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGSGG 240
QY 241 PLACNKDGLWYQIGVWSGVCGRPNRPVYTNISHHFEWTKLMAQSGMSQDPSPWPLL 300
Db 241 PLACNKDGLWYQIGVWSGVCGRPNRPVYTNISHHFEWTKLMAQSGMSQDPSPWPLL 300
QY 301 FFPLLMALPLIGPV 314
Db 301 FFPLLMALPLIGPV 314

RESULT 9
US-09-907-841-257
; Sequence 257, Application US/09907841
; Publication No. US20020198366A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gottard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James


```
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,841
; CURRENT FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 257
; LENGTH: 314
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-907-841-257

Query Match          99.7%  Score 1723; DB 9; Length 314;
Best Local Similarity 99.7%  Pred No. 1.1e-158;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGARGALLALLARAGLRKPESQEAAPLSGPGCRRVITSRIVGGEDAELGRWPQGSRLR 60
Db 1 MGARGALLALLARAGLRKPESQEAAPLSGPGCRRVITSRIVGGEDAELGRWPQGSRLR 60
Qy 61 LWDHVCVGSLLSHRWALTAACFCFETYSDDLSDPSGVMVQFQGLTSMPSFWSLQAYYTRYF 120
Db 61 LWDHVCVGSLLSHRWALTAACFCFETYSDDLSDPSGVMVQFQGLTSMPSFWSLQAYYTRYF 120
Qy 121 VSNLYLSPRYLGNSPYDIALVKLSAPVTTYTHIQICLQASTFEFENRTDCWVTGWGIK 180
Db 121 VSNLYLSPRYLGNSPYDIALVKLSAPVTTYTHIQICLQASTFEFENRTDCWVTGWGIK 180
Qy 181 EDEALPSHTLQEQVAIINNSMCHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGHSGG 240
Db 181 EDEALPSHTLQEQVAIINNSMCHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGHSGG 240
Qy 241 PLACNKGWLWQIGVSVGVGCGRRPNRPGVYTNISHPFEWIOKLMAQSGMSQDPSPWLL 300
Db 241 PLACNKGWLWQIGVSVGVGCGRRPNRPGVYTNISHPFEWIOKLMAQSGMSQDPSPWLL 300
Qy 301 FPELLWALPLIGPV 314
Db 301 FPELLWALPLIGPV 314

RESULT 10
US-09-904-011-257
; Sequence 257, Application US/09904011
; Publication No. US2003000350A1
; GENERAL INFORMATION:
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Query Match 99.7%; Score 1723; DB 10; Length 314;
Best Local Similarity 99.7%; Pred. No. 1.le-158;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGARGALLALLARAGLRKPEQEAAPLSGPCGRRVITSRIYGGDAELGRWPQGSLLR 60
DB 1 MGARGALLALLARAGLRKPEQEAAPLSGPCGRRVITSRIYGGDAELGRWPQGSLLR 60
QY 61 LWDHVCVSLLSHRWALTAHCFETYSDDLSPSGMMVQFQGLTSMPSFWSLQAYYTRYF 120
DB 61 LWDHVCVSLLSHRWALTAHCFETYSDDLSPSGMMVQFQGLTSMPSFWSLQAYYTRYF 120
QY 121 VSNYLSPRYLGNSPYDIALVKLSAPVYTKHIQICLQASTFFENRTDCWVTGMYIK 180
DB 121 VSNYLSPRYLGNSPYDIALVKLSAPVYTKHIQICLQASTFFENRTDCWVTGMYIK 180
QY 181 EDEALPSHTLOEQVOVAIINNSMCNHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGDSGG 240
DB 181 EDEALPSHTLOEQVOVAIINNSMCNHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGDSGG 240
QY 241 PLACNKGWLQIYGVSWSGVCGRPNRPGVYTNISHHFEWIOKLMAQSGMSQDPSPWPLL 300
DB 241 PLACNKGWLQIYGVSWSGVCGRPNRPGVYTNISHHFEWIOKLMAQSGMSQDPSPWPLL 300
QY 301 FFFLLWALPLLGPV 314
DB 301 FFFLLWALPLLGPV 314

RESULT 11

US-09-903-640-257
; Sequence 257, Application US/09903640
; Publication No. US20030017463A1

GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same

; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/903,640

; CURRENT FILING DATE: 2001-07-11

; PRIOR APPLICATION NUMBER: 09/665,350

; PRIOR FILING DATE: 2000-09-18

; NUMBER OF SEQ ID NOS: 423

; SEQ ID NO 257

; LENGTH: 314

; TYPE: PRT

; ORGANISM: Homo Sapien

US-09-903-640-257

Query Match 99.7%; Score 1723; DB 10; Length 314;
Best Local Similarity 99.7%; Pred. No. 1.le-158;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGARGALLALLARAGLRKPEQEAAPLSGPCGRRVITSRIYGGDAELGRWPQGSLLR 60
DB 1 MGARGALLALLARAGLRKPEQEAAPLSGPCGRRVITSRIYGGDAELGRWPQGSLLR 60
QY 61 LWDHVCVSLLSHRWALTAHCFETYSDDLSPSGMMVQFQGLTSMPSFWSLQAYYTRYF 120
DB 61 LWDHVCVSLLSHRWALTAHCFETYSDDLSPSGMMVQFQGLTSMPSFWSLQAYYTRYF 120
QY 121 VSNYLSPRYLGNSPYDIALVKLSAPVYTKHIQICLQASTFFENRTDCWVTGMYIK 180
DB 121 VSNYLSPRYLGNSPYDIALVKLSAPVYTKHIQICLQASTFFENRTDCWVTGMYIK 180
QY 181 EDEALPSHTLOEQVOVAIINNSMCNHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGDSGG 240
DB 181 EDEALPSHTLOEQVOVAIINNSMCNHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGDSGG 240
QY 241 PLACNKGWLQIYGVSWSGVCGRPNRPGVYTNISHHFEWIOKLMAQSGMSQDPSPWPLL 300
DB 241 PLACNKGWLQIYGVSWSGVCGRPNRPGVYTNISHHFEWIOKLMAQSGMSQDPSPWPLL 300
QY 301 FFFLLWALPLLGPV 314
DB 301 FFFLLWALPLLGPV 314

RESULT 12

US-09-908-093-257
; Sequence 257, Application US/09908093
; Publication No. US20030017498A1

GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same

; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/908,093

; CURRENT FILING DATE: 2001-07-17

; PRIOR APPLICATION NUMBER: 09/665,350

; PRIOR FILING DATE: 2000-09-18

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: US 60/143,048

; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698

; PRIOR FILING DATE: 1999-07-26

; PRIOR APPLICATION NUMBER: US 60/146,222

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; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-03-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-03-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-03-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-03-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 257
; LENGTH: 314
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-908-093-257

Query Match          99.7%; Score 1723; DB 10; Length 314;
Best Local Similarity 99.7%; Pred. No. 1.1e-158;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGARGALLALLARAGLRKPESQEAAPLSPGCGRRVITSRIVGGEDAEELGRWPQGSRLR 60
Db 1 MGARGALLALLARAGLRKPESQEAAPLSPGCGRRVITSRIVGGEDAEELGRWPQGSRLR 60
Qy 61 LWDSHVCGVSLLSHRWALTAACHFETYSDDLSPSCMMVQFGLTSMPSFNSLQAYTYRYF 120
Db 61 LWDSHVCGVSLLSHRWALTAACHFETYSDDLSPSCMMVQFGLTSMPSFNSLQAYTYRYF 120
Qy 121 VSNLYLSPRYLGNSPYDIALVKLSAPVYTYKHIOPICLQASTFFENRTDCWVTGWGYIK 180
Db 121 VSNLYLSPRYLGNSPYDIALVKLSAPVYTYKHIOPICLQASTFFENRTDCWVTGWGYIK 180
Qy 181 EDEALPSHTLQEQVQVAIINNSMCNHLFLKYSFRKDIIFGDMVVCAGNAQGGKDACFGDSGG 240
Db 181 EDEALPSHTLQEQVQVAIINNSMCNHLFLKYSFRKDIIFGDMVVCAGNAQGGKDACFGDSGG 240
Qy 241 PLACNKDGLWYQIGVSVGVCGRNRPQGVYTNISHHFEWIKLMAQSGMSQPPSPWPLL 300
Db 241 PLACNKDGLWYQIGVSVGVCGRNRPQGVYTNISHHFEWIKLMAQSGMSQPPSPWPLL 300
Qy 301 FFPLLWALPLLPV 314
Db 301 FFPLLWALPLLPV 314

RESULT 13
US-09-906-742-257
; Sequence 257, Application US/09906742
; Publication No. US20030023054A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gottstein, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,742
; CURRENT FILING DATE: 2001-07-16
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 257
; LENGTH: 314
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-906-742-257

Query Match          99.7%; Score 1723; DB 10; Length 314;
Best Local Similarity 99.7%; Pred. No. 1.1e-158;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGARGALLALLARAGLRKPESQEAAPLSPGCGRRVITSRIVGGEDAEELGRWPQGSRLR 60
Db 1 MGARGALLALLARAGLRKPESQEAAPLSPGCGRRVITSRIVGGEDAEELGRWPQGSRLR 60
Qy 61 LWDSHVCGVSLLSHRWALTAACHFETYSDDLSPSCMMVQFGLTSMPSFNSLQAYTYRYF 120
Db 61 LWDSHVCGVSLLSHRWALTAACHFETYSDDLSPSCMMVQFGLTSMPSFNSLQAYTYRYF 120
Qy 121 VSNLYLSPRYLGNSPYDIALVKLSAPVYTYKHIOPICLQASTFFENRTDCWVTGWGYIK 180
Db 121 VSNLYLSPRYLGNSPYDIALVKLSAPVYTYKHIOPICLQASTFFENRTDCWVTGWGYIK 180
Qy 181 EDEALPSHTLQEQVQVAIINNSMCNHLFLKYSFRKDIIFGDMVVCAGNAQGGKDACFGDSGG 240
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Qy 241 PLACNKDGLWYQIGVSVGVCGRNRPQGVYTNISHHFEWIKLMAQSGMSQPPSPWPLL 300
Db 241 PLACNKDGLWYQIGVSVGVCGRNRPQGVYTNISHHFEWIKLMAQSGMSQPPSPWPLL 300
Qy 301 FFPLLWALPLLPV 314
Db 301 FFPLLWALPLLPV 314
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Qy 61 LWDSHVCGVSLSHRWALTAHCFETYSDLSDPGVMVQFQGLTSMPSFWSLQAYTRYF 120
Db 61 LWDSHVCGVSLSHRWALTAHCFETYSDLSDPGVMVQFQGLTSMPSFWSLQAYTRYF 120
Qy 121 VSNITLSPRYLGNSPYDIALVKLSAPVYTKHIQICLQASTFEFENRTDCWVTGWGYIK 180
Db 121 VSNITLSPRYLGNSPYDIALVKLSAPVYTKHIQICLQASTFEFENRTDCWVTGWGYIK 180
Qy 181 EDEALPSPHTLQEVQVAIINNMCNHLFLKYSFRKDI FGMVCAAGNAQGGKDACFGDSGG 240
Db 181 EDEALPSPHTLQEVQVAIINNMCNHLFLKYSFRKDI FGMVCAAGNAQGGKDACFGDSGG 240
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Db 241 PLACNKDGLWYQIGVSWGCGRRPNRPGVYTNISHHFEWIKLMAQSGMSQDPSPWPLL 300
Qy 301 FFPLLWALPLLGPV 314
Db 301 FFPLLWALPLLGPV 314

RESULT 14

US-09-906-838-257
; Sequence 257, Application US/09906838
; Publication No. US20030027143A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,838
; PRIOR FILING DATE: 2001-07-16
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13

; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 257
; LENGTH: 314
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-906-838-257

Query Match 99.7%; Score 1723; DB 10; Length 314;
Best Local Similarity 99.7%; Pred. No. 1.1e-158;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MGARGALLALLARAGLRKPESQEAAPLSGPCGRRVITSRIVGGEDAEIAGRWPQGSRLR 60
Db 1 MGARGALLALLARAGLRKPESQEAAPLSGPCGRRVITSRIVGGEDAEIAGRWPQGSRLR 60
Qy 61 LWDSHVCGVSLSHRWALTAHCFETYSDLSDPGVMVQFQGLTSMPSFWSLQAYTRYF 120
Db 61 LWDSHVCGVSLSHRWALTAHCFETYSDLSDPGVMVQFQGLTSMPSFWSLQAYTRYF 120
Qy 121 VSNITLSPRYLGNSPYDIALVKLSAPVYTKHIQICLQASTFEFENRTDCWVTGWGYIK 180
Db 121 VSNITLSPRYLGNSPYDIALVKLSAPVYTKHIQICLQASTFEFENRTDCWVTGWGYIK 180
Qy 181 EDEALPSPHTLQEVQVAIINNMCNHLFLKYSFRKDI FGMVCAAGNAQGGKDACFGDSGG 240
Db 181 EDEALPSPHTLQEVQVAIINNMCNHLFLKYSFRKDI FGMVCAAGNAQGGKDACFGDSGG 240
Qy 241 PLACNKDGLWYQIGVSWGCGRRPNRPGVYTNISHHFEWIKLMAQSGMSQDPSPWPLL 300
Db 241 PLACNKDGLWYQIGVSWGCGRRPNRPGVYTNISHHFEWIKLMAQSGMSQDPSPWPLL 300
Qy 301 FFPLLWALPLLGPV 314
Db 301 FFPLLWALPLLGPV 314

RESULT 15

US-09-907-613-257
; Sequence 257, Application US/09907613
; Publication No. US20030027145A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritson, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tunas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/907,613
PRIOR FILING DATE: 2001-07-17
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 257
LENGTH: 314
TYPE: PRT
ORGANISM: Homo Sapien
US-09-907-613-257

Query Match 99.7%; Score 1723; DB 10; Length 314;
Best Local Similarity 99.7%; Pred. No. 1.1e-158;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Qy 1 NCARGALLALLARAGLRKPESQAAFLSGPCGRRVITSRIVGCEDAELGRWPQGSRLR 60
Db 1 NCARGALLALLARAGLRKPESQAAFLSGPCGRRVITSRIVGCEDAELGRWPQGSRLR 60
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Db 61 LWDHVCVGLLSHRWALTAAHCFETYSDLSDPSCGMVQFGLTSMPSFWSLQAYTRYF 120

Qy 121 VSNIIYLSPRYLGNSPYDIALVKLSAPVYTKHIQPICLQASTFEFENRTDCWVTGWGVYK 180
Db 121 VSNIIYLSPRYLGNSPYDIALVKLSAPVYTKHIQPICLQASTFEFENRTDCWVTGWGVYK 180
Qy 181 EDEALPSPHTLQEVQVAIINNSMCNHLFLKYSFRKQIFGDMVCAGNAQGGKDACFGDSGG 240
Db 181 EDEALPSPHTLQEVQVAIINNSMCNHLFLKYSFRKQIFGDMVCAGNAQGGKDACFGDSGG 240
Qy 241 PLACNKDGLWYQIGVVSWSGVCGRPNRPGVYTNISHHFEWIOKLMAQSGMSQPPSPWPLL 300
Db 241 PLACNKDGLWYQIGVVSWSGVCGRPNRPGVYTNISHHFEWIOKLMAQSGMSQPPSPWPLL 300
Qy 301 FFPLLWALPLLGPV 314
Db 301 FFPLLWALPLLGPV 314

Search completed: February 27, 2005, 20:39:49
Job time : 90.2843 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 27, 2005, 20:12:15 ; Search time 30.0958 Seconds
(without alignments)
778.839 Million cell updates/sec

Title: US-10-040-647-6

Perfect score: 1728

Sequence: 1 MGARGALLALLARAGLRK.....PSWPLLPFLMALPLGPV 314

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- Issued Patents AA.*
- 1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep.*
 - 2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep.*
 - 3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep.*
 - 4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep.*
 - 5: /cgn2_6/ptodata/1/iaa/PTCUS_COMB.pep.*
 - 6: /cgn2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	1723	99.7	314	3	US-09-008-271A-3
3	1723	99.7	314	4	US-09-907-794A-257
4	1723	99.7	314	4	US-09-905-125A-257
5	1723	99.7	314	4	US-09-902-775A-257
6	1723	99.7	314	4	US-09-906-700-257
7	1723	99.7	314	4	US-09-903-603A-257
8	1723	99.7	314	4	US-09-904-920A-257
9	1723	99.7	314	4	US-09-909-064-257
10	1723	99.7	314	4	US-09-905-381A-257
11	1723	99.7	314	4	US-09-906-618-257
12	1706	98.7	312	4	US-09-023-942A-4
13	1414	81.8	306	4	US-09-386-642-53
14	1113.5	64.4	285	4	US-09-023-942A-26
15	573	33.2	290	4	US-09-386-653A-7
16	556	32.2	299	3	US-08-944-483-66
17	549	31.8	315	4	US-09-386-653A-9
18	543.5	31.5	328	4	US-09-386-642-11
19	542.5	31.4	319	4	US-09-386-642-12
20	536.5	31.0	317	4	US-09-386-629-7
21	536.5	31.0	317	4	US-09-907-794A-263
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24	536.5	31.0	317	4	US-09-906-700-263
25	536.5	31.0	317	4	US-09-903-603A-263
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28	536.5	31.0	317	4	US-09-905-381A-263	Sequence 263, App
29	536.5	31.0	317	4	US-09-906-618-263	Sequence 263, App
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32	511	29.6	276	2	US-09-016-366A-15	Sequence 15, Appl
33	511	29.6	276	2	US-08-978-404B-21	Sequence 21, Appl
34	511	29.6	327	4	US-09-386-629-8	Sequence 8, Appli
35	510	29.5	273	2	US-09-016-366A-19	Sequence 19, Appl
36	510	29.5	273	2	US-08-978-404B-14	Sequence 14, Appl
37	510	29.5	638	2	US-08-681-151-3	Sequence 3, Appli
38	509	29.5	273	2	US-08-978-404B-3	Sequence 3, Appli
39	509	29.5	274	2	US-09-016-366A-21	Sequence 21, Appl
40	509	29.5	274	2	US-08-978-404B-16	Sequence 16, Appl
41	508.5	29.4	446	4	US-10-177-661-4	Sequence 4, Appli
42	508.5	29.4	477	4	US-10-177-661-2	Sequence 2, Appli
43	508.5	29.4	562	4	US-09-879-792-12	Sequence 12, Appl
44	507	29.3	267	2	US-09-016-366A-23	Sequence 23, Appl
45	507	29.3	267	2	US-08-978-404B-18	Sequence 18, Appl

ALIGNMENTS

RESULT 1
US-09-023-942A-6
; Sequence 6, Application US/09023942A
; Patent No. 6479274
; GENERAL INFORMATION:
; APPLICANT: (US only) ANTALIS Toni Marie and HOOPER John David
; TITLE OF INVENTION: NOVEL MOLECULES
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
; STREET: 400 GARDEN CITY PLAZA
; CITY: GARDEN CITY
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,942A
; FILING DATE: 13-FEB-1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: P05101/97
; FILING DATE: 13-FEB-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: P04022/97
; FILING DATE: 18-NOV-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: International PCT Application
; FILING DATE: 13-FEB-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: DIGILIO, FRANK S
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 11169
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742 4343
; TELEFAX: (516) 742 4366
; TELEX: 230 901 SANS UR
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 314 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-023-942A-6

Query Match 100.0%; Score 1728; DB 4; Length 314;

Best Local Similarity 100.0%; Pred. No. 1.1e-165;
Matches 314; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGARGALLALLARAGLRKPESQEAAPLSPGCGRRVITSRIVGGDAELGRWPQGSRLR 60
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DB 61 LWDHSHVCGVSLSHRWALTAHCFETYSDLSDPGMMVQFGLTSMPSFWSLQAYTRYF 120

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DB 121 VSNYILSPRYLGNSPYDIALVKLSAPVYTKHIQPICLQASTFEFENRTDCWVTGWGYYK 180

QY 181 EDEALPSPTHLOEVQVAIIINNSMCNHLFLKYSFRKDI FGDMVCAGNAQGGKDACFGDSGG 240
DB 181 EDEALPSPTHLOEVQVAIIINNSMCNHLFLKYSFRKDI FGDMVCAGNAQGGKDACFGDSGG 240

QY 241 PLACNKDGLWYQIGVSVGWGCGRPNRPGVYTNISHHFEWIOKLMAQSGMSQDPPSWPLL 300
DB 241 PLACNKDGLWYQIGVSVGWGCGRPNRPGVYTNISHHFEWIOKLMAQSGMSQDPPSWPLL 300

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RESULT 2

US-09-008-271A-3
; Sequence 3, Application US/09008271A
; Patent No. 6203979
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; Hillman, Jennifer L.
; Yue, Henry
; Guegler, Karl J.
; Corley, Neil C.
; Tang, Tom Y.
; Shah, Purvi.
; TITLE OF INVENTION: HUMAN PROTEASE MOLECULES
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Dr.
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/008,271A
; FILING DATE: 16-Jan-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: <Unknown>
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Mohan-Peterson, Sheela
; REGISTRATION NUMBER: 41,201
; REFERENCE/DOCKET NUMBER: PF-0458 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 314 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear

IMMEDIATE SOURCE:
LIBRARY: PROSTUT03
CLONE: 789927
SEQUENCE DESCRIPTION: SEQ ID NO: 3 :
US-09-008-271A-3

Query Match 99.7%; Score 1723; DB 3; Length 314;
Best Local Similarity 99.7%; Pred. No. 3.5e-165;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGARGALLALLARAGLRKPESQEAAPLSPGCGRRVITSRIVGGDAELGRWPQGSRLR 60
DB 1 MGARGALLALLARAGLRKPESQEAAPLSPGCGRRVITSRIVGGDAELGRWPQGSRLR 60

QY 61 LWDHSHVCGVSLSHRWALTAHCFETYSDLSDPGMMVQFGLTSMPSFWSLQAYTRYF 120
DB 61 LWDHSHVCGVSLSHRWALTAHCFETYSDLSDPGMMVQFGLTSMPSFWSLQAYTRYF 120

QY 121 VSNYILSPRYLGNSPYDIALVKLSAPVYTKHIQPICLQASTFEFENRTDCWVTGWGYYK 180
DB 121 VSNYILSPRYLGNSPYDIALVKLSAPVYTKHIQPICLQASTFEFENRTDCWVTGWGYYK 180

QY 181 EDEALPSPTHLOEVQVAIIINNSMCNHLFLKYSFRKDI FGDMVCAGNAQGGKDACFGDSGG 240
DB 181 EDEALPSPTHLOEVQVAIIINNSMCNHLFLKYSFRKDI FGDMVCAGNAQGGKDACFGDSGG 240

QY 241 PLACNKDGLWYQIGVSVGWGCGRPNRPGVYTNISHHFEWIOKLMAQSGMSQDPPSWPLL 300
DB 241 PLACNKDGLWYQIGVSVGWGCGRPNRPGVYTNISHHFEWIOKLMAQSGMSQDPPSWPLL 300

QY 301 FPELLWALPLLGPV 314
DB 301 FPELLWALPLLGPV 314

RESULT 3

US-09-907-794A-257
; Sequence 257, Application US/09907794A
; Patent No. 6635468
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,794A
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048

;; PRIOR FILING DATE: 1999-07-07
;; PRIOR APPLICATION NUMBER: US 60/145,698
;; PRIOR FILING DATE: 1999-07-26
;; PRIOR APPLICATION NUMBER: US 60/146,222
;; PRIOR FILING DATE: 1999-07-28
;; PRIOR APPLICATION NUMBER: PCT/US99/20594
;; PRIOR FILING DATE: 1999-09-08
;; PRIOR APPLICATION NUMBER: PCT/US99/20944
;; PRIOR FILING DATE: 1999-09-13
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/21547
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/23089
;; PRIOR FILING DATE: 1999-10-05
;; PRIOR APPLICATION NUMBER: PCT/US99/28214
;; PRIOR FILING DATE: 1999-11-29
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: 1999-11-30
;; PRIOR APPLICATION NUMBER: PCT/US99/28564
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/28565
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: 1999-12-16
;; PRIOR APPLICATION NUMBER: PCT/US99/30911
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US99/30999
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US00/00219
;; PRIOR FILING DATE: 2000-01-05
;; NUMBER OF SEQ ID NOS: 423
;; SEQ ID NO 257
;; LENGTH: 314
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-907-794A-257

Query Match 99.7%; Score 1723; DB 4; Length 314;
Best Local Similarity 99.7%; Pred. No. 3.5e-165;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MGARGALLALLARAGLRKPESQEAAPLSPGCGRRVITSRIVGGEAEGLRWPGQSLR	60
Db	1	MGARGALLALLARAGLRKPESQEAAPLSPGCGRRVITSRIVGGEAEGLRWPGQSLR	60
Qy	61	LWDSHVCGVSLSHRWALTAACHPETYSDDLSDPSGMMVQFGLTSMPSLQAYTYRYF	120
Db	61	LWDSHVCGVSLSHRWALTAACHPETYSDDLSDPSGMMVQFGLTSMPSLQAYTYRYF	120
Qy	121	VSNTYLSPRYLGNSPYDIALVKLSAPVYTYKHQIPICLOASTFEFENRTDCWVTGNGYIK	180
Db	121	VSNTYLSPRYLGNSPYDIALVKLSAPVYTYKHQIPICLOASTFEFENRTDCWVTGNGYIK	180
Qy	181	EDEALPSHTLQVQVVAIINSMCNHLFLKYSFKRDIQDMVCAAGNAGGKDACFGDSGG	240
Db	181	EDEALPSHTLQVQVVAIINSMCNHLFLKYSFKRDIQDMVCAAGNAGGKDACFGDSGG	240
Qy	241	PLACNKGWLWQGVGWSGVCGRPNRGVYTNISHPFWIQLMAQSGMSQDPSPWLL	300
Db	241	PLACNKGWLWQGVGWSGVCGRPNRGVYTNISHPFWIQLMAQSGMSQDPSPWLL	300
Qy	301	FFPLLWALPLGVPV 314	
Db	301	FFPLLWALPLGVPV 314	

RESULT 4
US-09-905-125A-257
; Sequence 257, Application US/09905125A
; Patent No. 6664376
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.

;; APPLICANT: Ashkenazi, Avi
;; APPLICANT: Botstein, David
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Baton, Dan L.
;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Filvaroff, Ellen
;; APPLICANT: Fong, Sherman
;; APPLICANT: Gao, Wei-Qiang
;; APPLICANT: Gerber, Hanspeter
;; APPLICANT: Gerritsen, Mary E.
;; APPLICANT: Goddard, A.
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Grimaldi, Christopher J.
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Hillan, Kenneth, J.
;; APPLICANT: Kijavini, Ivar J.
;; APPLICANT: Mather, Jennie P.
;; APPLICANT: Pan, James
;; APPLICANT: Paoni, Nicholas F.
;; APPLICANT: Roy, Margaret Ann
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William, I.
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; TITLE OF INVENTION: Acids Encoding the Same
;; FILE REFERENCE: 10466-14
;; CURRENT APPLICATION NUMBER: US/09/905,125A
;; CURRENT FILING DATE: 2001-07-12
;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: 2000-02-22
;; PRIOR APPLICATION NUMBER: US 60/143,048
;; PRIOR FILING DATE: 1999-07-07
;; PRIOR APPLICATION NUMBER: US 60/145,698
;; PRIOR FILING DATE: 1999-07-26
;; PRIOR APPLICATION NUMBER: US 60/146,222
;; PRIOR FILING DATE: 1999-07-28
;; PRIOR APPLICATION NUMBER: PCT/US99/20594
;; PRIOR FILING DATE: 1999-09-08
;; PRIOR APPLICATION NUMBER: PCT/US99/20944
;; PRIOR FILING DATE: 1999-09-13
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/21547
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/23089
;; PRIOR FILING DATE: 1999-10-05
;; PRIOR APPLICATION NUMBER: PCT/US99/28214
;; PRIOR FILING DATE: 1999-11-29
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: 1999-11-30
;; PRIOR APPLICATION NUMBER: PCT/US99/28564
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/28565
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: 1999-12-16
;; PRIOR APPLICATION NUMBER: PCT/US99/30911
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US99/30999
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US00/00219
;; PRIOR FILING DATE: 2000-01-05
;; NUMBER OF SEQ ID NOS: 423
;; SEQ ID NO 257
;; LENGTH: 314
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-905-125A-257

Query Match 99.7%; Score 1723; DB 4; Length 314;
Best Local Similarity 99.7%; Pred. No. 3.5e-165;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY	1	MGARGALLALLAPAGLRKPESEAAPLSGPCRRVITSRIVCGDEDAELGRPWQGSIR	60
Db	1	MGARGALLALLAPAGLRKPESEAAPLSGPCRRVITSRIVCGDEDAELGRPWQGSIR	60
QY	61	LWDSHVCGVSLLSHRWALTAACHCFETYSDSLSDPSGMVQFGQLTSPFSWLSQAYYTRYF	120
Db	61	LWDSHVCGVSLLSHRWALTAACHCFETYSDSLSDPSGMVQFGQLTSPFSWLSQAYYTRYF	120
QY	121	VSNIVLSPRYLGNSPYDIALVKLSAPVYTKHIQICLOASTFEFENRTDCWWTGWYIK	180
Db	121	VSNIVLSPRYLGNSPYDIALVKLSAPVYTKHIQICLOASTFEFENRTDCWWTGWYIK	180
QY	181	EDREALPSHTLQEVQVAIINNMCNHLFLKYSFRKDIFGDMVCAGNAQGGKACFGDSGG	240
Db	181	EDREALPSHTLQEVQVAIINNMCNHLFLKYSFRKDIFGDMVCAGNAQGGKACFGDSGG	240
QY	241	PLACNKDGLWYQIGVVSVMGVCGRPNRPGVYTNISHHFEWIKLMAQSGMSQDPSPSWLL	300
Db	241	PLACNKGLWYQIGVVSVMGVCGRPNRPGVYTNISHHFEWIKLMAQSGMSQDPSPSWLL	300
QY	301	FFPELLWALPLIGPV	314
Db	301	FFPELLWALPLIGPV	314

RESULT 5
US-09-902-775A-357
; Sequence 257, Application US/09902775A
; Patent No. 6686451
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Flvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nuclei
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,775A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13

;	PRIOR APPLICATION NUMBER:	PCT/US99/21090	
;	PRIOR FILING DATE:	1999-09-15	
;	PRIOR APPLICATION NUMBER:	PCT/US99/21547	
;	PRIOR FILING DATE:	1999-09-15	
;	PRIOR APPLICATION NUMBER:	PCT/US99/23089	
;	PRIOR FILING DATE:	1999-10-05	
;	PRIOR APPLICATION NUMBER:	PCT/US99/28214	
;	PRIOR FILING DATE:	1999-11-29	
;	PRIOR APPLICATION NUMBER:	PCT/US99/28313	
;	PRIOR FILING DATE:	1999-11-30	
;	PRIOR APPLICATION NUMBER:	PCT/US99/28564	
;	PRIOR FILING DATE:	1999-12-02	
;	PRIOR APPLICATION NUMBER:	PCT/US99/28565	
;	PRIOR FILING DATE:	1999-12-02	
;	PRIOR APPLICATION NUMBER:	PCT/US99/30095	
;	PRIOR FILING DATE:	1999-12-16	
;	PRIOR APPLICATION NUMBER:	PCT/US99/30911	
;	PRIOR FILING DATE:	1999-12-20	
;	PRIOR APPLICATION NUMBER:	PCT/US99/30999	
;	PRIOR FILING DATE:	1999-12-20	
;	PRIOR APPLICATION NUMBER:	PCT/US00/00219	
;	PRIOR FILING DATE:	2000-01-05	
;	NUMBER OF SEQ ID NOS:	423	
;	SEQ ID NO 257		
;	LENGTH:	314	
;	TYPE:	PRT	
;	ORGANISM:	Homo Sapien	
;	US-09-902-775A-257		
;	Query Match	99.7%; Score 1723; DB 4; Length 314;	
;	Best Local Similarity	99.7%; Pred. No. 3.5e-165;	
;	Matches 313; Conservative	1; Mismatches 0; Indels 0; Gaps 0;	
Qy	1	MGARGALLALLARAGLRKPESQEAAPLSGPCGRRVITSRIVGGDAELGRWPWGQSLR	60
Db	1	MGARGALLALLARAGLRKPESQEAAPLSGPCGRRVITSRIVGGDAELGRWPWGQSLR	60
Qy	61	LMDSHVCVGSLLSHRWALTAAHCFETYSDLSDPSCGMWVQFQGLTSPSPFWSLOAYTRYF	120
Db	61	LMDSHVCVGSLLSHRWALTAAHCFETYSDLSDPSCGMWVQFQGLTSPSPFWSLOAYTRYF	120
Qy	121	VSNIYLSPRVLGNSPYDIALVKLSAPVYTKHQPICLOASTFEFENRTDCWVTGWGIK	180
Db	121	VSNIYLSPRVLGNSPYDIALVKLSAPVYTKHQPICLOASTFEFENRTDCWVTGWGIK	180
Qy	181	EDRALSPHTLQEVQVAIINNSMCNHLFLKYSFRKDIFGDMVCAGNAQGGKDACFGDSGG	240
Db	181	EDRALSPHTLQEVQVAIINNSMCNHLFLKYSFRKDIFGDMVCAGNAQGGKDACFGDSGG	240
Qy	241	PLACNKDGLWYQIGVWSWVGCGRPNRPYVYTNISHHFEWIKLMAQSGMSQDPDPSPWPLL	300
Db	241	PLACNKDGLWYQIGVWSWVGCGRPNRPYVYTNISHHFEWIKLMAQSGMSQDPDPSPWPLL	300
Qy	301	FFPLLWALPLLGPV 314	
Db	301	FFPLLWALPLLGPV 314	
RESULT 6			
US-09-906-700-257			
; Sequence 257, Application US/09906700			
; Patent No. 6723535			
; GENERAL INFORMATION:			
; APPLICANT: Genentech, Inc.			
; APPLICANT: Ashkenazi, Avi			
; APPLICANT: Botstein, David			
; APPLICANT: Desnoyers, Luc			
; APPLICANT: Eaton, Dan L.			
; APPLICANT: Ferrara, Napoleone			
; APPLICANT: Filvaroff, Ellen			
; APPLICANT: Fong, Sherman			
; APPLICANT: Gao, Wei-Qiang			
; APPLICANT: Gerber, Hanspeter			

APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kijavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/906,700
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-09-18
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-15
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 257
LENGTH: 314
TYPE: PRT
ORGANISM: Homo Sapien
US-09-906-700-257
Query Match 99.7%; Score 1723; DB 4; Length 314;
Best Local Similarity 99.7%; Pred. No. 3.5e-165;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MGARGALLALLRAGLRKPESQEAAPLSPGCGRRVITSRIVGGDEALGRWPQGSILR 60
Db 1 MGARGALLALLRAGLRKPESQEAAPLSPGCGRRVITSRIVGGDEALGRWPQGSILR 60
Qy 61 LWDSHVCGVSLLSHRWALTAACPTYSYDLSDPSCGMVQFGOLTSMPFSWLSQAYTRYF 120
Db 61 LWDSHVCGVSLLSHRWALTAACPTYSYDLSDPSCGMVQFGOLTSMPFSWLSQAYTRYF 120

Qy 121 VSNLYLSPRYLGNSPYDIALVKLSAPVYTKHIQIPICLQASTPFEFNTDCWVTGWYIK 180
Db 121 VSNLYLSPRYLGNSPYDIALVKLSAPVYTKHIQIPICLQASTPFEFNTDCWVTGWYIK 180
Qy 181 EDEALPSPHLTQEVQVAIINNMCNHLFLKYSFRKDFGDMVCAGNAQGGKDACFGDSGG 240
Db 181 EDEALPSPHLTQEVQVAIINNMCNHLFLKYSFRKDFGDMVCAGNAQGGKDACFGDSGG 240
Qy 241 PLACNKDGLWYQIGVWSGVGCGRPNRPVYTNISHPFWITOKLMAQSGMSQPDPSWPLL 300
Db 241 PLACNKDGLWYQIGVWSGVGCGRPNRPVYTNISHPFWITOKLMAQSGMSQPDPSWPLL 300
Qy 301 FFFLLWALPLLPV 314
Db 301 FFFLLWALPLLPV 314
RESULT 7
US-09-903-603A-257
Sequence 257, Application US/09903603A
Patent No. 6767995
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kijavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: GNE.1618P2C12
CURRENT APPLICATION NUMBER: US/09/903,603A
CURRENT FILING DATE: 2001-07-11
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313

;; PRIOR FILING DATE: 1999-11-30
;; PRIOR APPLICATION NUMBER: PCT/US99/28564
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/28565
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: 1999-12-16
;; PRIOR APPLICATION NUMBER: PCT/US99/30911
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US99/30999
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US00/00219
;; PRIOR FILING DATE: 2000-01-05
;; NUMBER OF SEQ ID NOS: 423
;; SEQ ID NO 257
;; LENGTH: 314
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-903-603A-257

Query Match
Best Local Similarity 99.7%; Score 1723; DB 4; Length 314;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGARGALLALLARAGLRKPESQEAAPLSPGCCRRVITSRIVGGEDAEGLRWPWGSLR 60
Db 1 MGARGALLALLARAGLRKPESQEAAPLSPGCCRRVITSRIVGGEDAEGLRWPWGSLR 60

Qy 61 LWDHSVGVSLLSHRWALTAHCFETYSDLSDPGWMVQFGLTSMPSFWSLQAYTRYF 120
Db 61 LWDHSVGVSLLSHRWALTAHCFETYSDLSDPGWMVQFGLTSMPSFWSLQAYTRYF 120

Qy 121 VSNLYLSPRYLGNSPYDIALVKLSAPVYTKHIQPICLQASTFEFENRTDCWVTGWGYIK 180
Db 121 VSNLYLSPRYLGNSPYDIALVKLSAPVYTKHIQPICLQASTFEFENRTDCWVTGWGYIK 180

Qy 181 EDEALPSPHTLQEVQVAIINNMCNHLFLKYSPFKDIFGDMVCAGNAQGGKDACFGDSGG 240
Db 181 EDEALPSPHTLQEVQVAIINNMCNHLFLKYSPFKDIFGDMVCAGNAQGGKDACFGDSGG 240

Qy 241 PLACNKDGLWYQIGVSWGCGRRPNRPVYTNISHHFEWIKLMAQSGMSQDPDPSWPLL 300
Db 241 PLACNKDGLWYQIGVSWGCGRRPNRPVYTNISHHFEWIKLMAQSGMSQDPDPSWPLL 300

RESULT 8

US-09-904-920A-257
; Sequence 257, Application US/09904920A
; Patent No. 6806352
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Macher, Jennie P.
; APPLICANT: Pan, James

;; APPLICANT: Paoni, Nicholas F.
;; APPLICANT: Roy, Margaret Ann
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William, I.
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE REFERENCE: 10466-14
;; CURRENT APPLICATION NUMBER: US/09/904,920A
;; CURRENT FILING DATE: 2001-07-13
;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: 2000-02-22
;; PRIOR APPLICATION NUMBER: US 60/143,048
;; PRIOR FILING DATE: 1999-07-07
;; PRIOR APPLICATION NUMBER: US 60/145,698
;; PRIOR FILING DATE: 1999-07-26
;; PRIOR APPLICATION NUMBER: US 60/146,222
;; PRIOR FILING DATE: 1999-07-28
;; PRIOR APPLICATION NUMBER: PCT/US99/20594
;; PRIOR FILING DATE: 1999-09-08
;; PRIOR APPLICATION NUMBER: PCT/US99/20944
;; PRIOR FILING DATE: 1999-09-13
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/21547
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/23089
;; PRIOR FILING DATE: 1999-10-05
;; PRIOR APPLICATION NUMBER: PCT/US99/28214
;; PRIOR FILING DATE: 1999-11-29
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: 1999-11-30
;; PRIOR APPLICATION NUMBER: PCT/US99/28564
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/28565
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: 1999-12-16
;; PRIOR APPLICATION NUMBER: PCT/US99/30911
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US99/30999
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US00/00219
;; NUMBER OF SEQ ID NOS: 423
;; SEQ ID NO 257
;; LENGTH: 314
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-904-920A-257

Query Match
Best Local Similarity 99.7%; Score 1723; DB 4; Length 314;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGARGALLALLARAGLRKPESQEAAPLSPGCCRRVITSRIVGGEDAEGLRWPWGSLR 60
Db 1 MGARGALLALLARAGLRKPESQEAAPLSPGCCRRVITSRIVGGEDAEGLRWPWGSLR 60

Qy 61 LWDHSVGVSLLSHRWALTAHCFETYSDLSDPGWMVQFGLTSMPSFWSLQAYTRYF 120
Db 61 LWDHSVGVSLLSHRWALTAHCFETYSDLSDPGWMVQFGLTSMPSFWSLQAYTRYF 120

Qy 121 VSNLYLSPRYLGNSPYDIALVKLSAPVYTKHIQPICLQASTFEFENRTDCWVTGWGYIK 180
Db 121 VSNLYLSPRYLGNSPYDIALVKLSAPVYTKHIQPICLQASTFEFENRTDCWVTGWGYIK 180

Qy 181 EDEALPSPHTLQEVQVAIINNMCNHLFLKYSPFKDIFGDMVCAGNAQGGKDACFGDSGG 240
Db 181 EDEALPSPHTLQEVQVAIINNMCNHLFLKYSPFKDIFGDMVCAGNAQGGKDACFGDSGG 240

Qy 241 PLACNKDGLWYQIGVSWGCGRRPNRPVYTNISHHFEWIKLMAQSGMSQDPDPSWPLL 300

Db 241 PLACNKGMLVQIGVSWGVCGCRPNRPVYTNISHFEWIKLMAQSGMSQDPSPWLL 300
Qy 301 FFPLLWALPLGPV 314
Db 301 FFPLLWALPLGPV 314

RESULT 9

US-09-909-064-257
; Sequence 257, Application US/09909064
; Patent No. 6818449
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,064
; PRIOR FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20

; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 257
; LENGTH: 314
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-09-909-064-257

Query Match 99.7%; Score 1723; DB 4; Length 314;
Best Local Similarity 99.7%; Pred No. 3.5e-165;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGARGALLALLARAGLRKPESQEAAPLSGPCGRRVITSRIVGGEAEELGRWPQGSRLR 60
Db 1 MGARGALLALLARAGLRKPESQEAAPLSGPCGRRVITSRIVGGEAEELGRWPQGSRLR 60

Qy 61 LWDSHVCGVSLLSHRWALTAHCFETYSDLSDPGSMVQFGLTSMPSFWSLQAYTRYF 120
Db 61 LWDSHVCGVSLLSHRWALTAHCFETYSDLSDPGSMVQFGLTSMPSFWSLQAYTRYF 120

Qy 121 VSNLYLSPRYLGNSPYDIALVKLSAPVYTKHIQIOLQASTFEFENRTDCWVTGMYIK 180
Db 121 VSNLYLSPRYLGNSPYDIALVKLSAPVYTKHIQIOLQASTFEFENRTDCWVTGMYIK 180

Qy 181 EDEALPSPHTLQEVQVAIINNSMCNHLFLKYSFRKIDFGDMVCAGNAQGGKACFGDSGG 240
Db 181 EDEALPSPHTLQEVQVAIINNSMCNHLFLKYSFRKIDFGDMVCAGNAQGGKACFGDSGG 240

Qy 241 PLACNKGMLVQIGVSWGVCGCRPNRPVYTNISHFEWIKLMAQSGMSQDPSPWLL 300
Db 241 PLACNKGMLVQIGVSWGVCGCRPNRPVYTNISHFEWIKLMAQSGMSQDPSPWLL 300

Qy 301 FFPLLWALPLGPV 314
Db 301 FFPLLWALPLGPV 314

RESULT 10
US-09-905-381A-257
; Sequence 257, Application US/09905381A
; Patent No. 6818746
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14

;; CURRENT APPLICATION NUMBER: US/09/905/381A
;; CURRENT FILING DATE: 2001-07-13
;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: 2000-02-22
;; PRIOR APPLICATION NUMBER: US 60/143,048
;; PRIOR FILING DATE: 1999-07-07
;; PRIOR APPLICATION NUMBER: US 60/145,698
;; PRIOR FILING DATE: 1999-07-26
;; PRIOR APPLICATION NUMBER: US 60/146,222
;; PRIOR FILING DATE: 1999-07-28
;; PRIOR APPLICATION NUMBER: PCT/US99/20594
;; PRIOR FILING DATE: 1999-09-08
;; PRIOR APPLICATION NUMBER: PCT/US99/20944
;; PRIOR FILING DATE: 1999-09-13
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/21547
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/23089
;; PRIOR FILING DATE: 1999-10-05
;; PRIOR APPLICATION NUMBER: PCT/US99/28214
;; PRIOR FILING DATE: 1999-11-29
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: 1999-11-30
;; PRIOR APPLICATION NUMBER: PCT/US99/28564
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/28565
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: 1999-12-16
;; PRIOR APPLICATION NUMBER: PCT/US99/30911
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US00/00219
;; PRIOR FILING DATE: 2000-01-05
;; NUMBER OF SEQ ID NOS: 423
;; SEQ ID NO 257
;; LENGTH: 314
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-905-381A-257

Query Match 99.7%; Score 1723; DB 4; Length 314;
Best Local Similarity 99.7%; Pred. No. 3.5e-165;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MGARGALLLLARAGLRKPESQEAAPLSGPGCRRVITSRIVGGEDAEELGRWPWQGSRLR 60
Db 1 MGARGALLLLARAGLRKPESQEAAPLSGPGCRRVITSRIVGGEDAEELGRWPWQGSRLR 60
Qy 61 LWDSHVCGVSLSHRWALTAAHCFETYSDDLSDPSGMMVQFCOLTSMPFSWLSQAYYTRYF 120
Db 61 LWDSHVCGVSLSHRWALTAAHCFETYSDDLSDPSGMMVQFCOLTSMPFSWLSQAYYTRYF 120
Qy 121 VSNLYLSPRYLGNPSYDIALVKLSAPVYTKHIQICLQASTFEFENRTDCWVTGWCYIK 180
Db 121 VSNLYLSPRYLGNPSYDIALVKLSAPVYTKHIQICLQASTFEFENRTDCWVTGWCYIK 180
Qy 181 EDEALPSPHTLQEVQVAIINNSMCHLFLKYSFRKDI FGMVCAAGNAGQKDACFGDSGG 240
Db 181 EDEALPSPHTLQEVQVAIINNSMCHLFLKYSFRKDI FGMVCAAGNAGQKDACFGDSGG 240
Qy 241 PLACNKDGLWYQIGVSGWCGCRPNRPGVYTNISHHFEWTKLMAQSGMSQDPDPSPPLL 300
Db 241 PLACNKDGLWYQIGVSGWCGCRPNRPGVYTNISHHFEWTKLMAQSGMSQDPDPSPPLL 300
Qy 301 FFPLLWALPLIGPV 314
Db 301 FFPLLWALPLIGPV 314

RESULT 11

US-09-906-618-257
;; Sequence 257, Application US/09906618
;; Patent No. 6828146
;; GENERAL INFORMATION:
;; APPLICANT: Genentech, Inc.
;; APPLICANT: Ashkenazi, Avi
;; APPLICANT: Botstein, David
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Eaton, Dan L.
;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Filvaroff, Ellen
;; APPLICANT: Fong, Sherman
;; APPLICANT: Gao, Wei-Qiang
;; APPLICANT: Gerber, Hanspeter
;; APPLICANT: Gerritsen, Mary E.
;; APPLICANT: Goddard, A.
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Grimaldi, Christopher J.
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Hillan, Kenneth, J.
;; APPLICANT: Kljavin, Ivar J.
;; APPLICANT: Mather, Jennie P.
;; APPLICANT: Pan, James
;; APPLICANT: Paoni, Nicholas F.
;; APPLICANT: Roy, Margaret Ann
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William, I.
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; TITLE OF INVENTION: Acids Encoding the Same
;; FILE REFERENCE: 10466-14
;; CURRENT APPLICATION NUMBER: US/09/906,618
;; CURRENT FILING DATE: 2001-07-16
;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: 2000-02-22
;; PRIOR APPLICATION NUMBER: US 60/143,048
;; PRIOR FILING DATE: 1999-07-07
;; PRIOR APPLICATION NUMBER: US 60/145,698
;; PRIOR FILING DATE: 1999-07-26
;; PRIOR APPLICATION NUMBER: US 60/146,222
;; PRIOR FILING DATE: 1999-07-28
;; PRIOR APPLICATION NUMBER: PCT/US99/20594
;; PRIOR FILING DATE: 1999-09-08
;; PRIOR APPLICATION NUMBER: PCT/US99/20944
;; PRIOR FILING DATE: 1999-09-13
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/21547
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/23089
;; PRIOR FILING DATE: 1999-10-05
;; PRIOR APPLICATION NUMBER: PCT/US99/28214
;; PRIOR FILING DATE: 1999-11-29
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: 1999-11-30
;; PRIOR APPLICATION NUMBER: PCT/US99/28564
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/28565
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: 1999-12-16
;; PRIOR APPLICATION NUMBER: PCT/US99/30911
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US99/30999
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US00/00219
;; PRIOR FILING DATE: 2000-01-05
;; NUMBER OF SEQ ID NOS: 423
;; SEQ ID NO 257
;; LENGTH: 314
;; TYPE: PRT
;; ORGANISM: Homo Sapien

US-09-906-618-257

Query Match 99.7%; Score 1723; DB 4; Length 314;
Best Local Similarity 99.7%; Pred. No. 3.5e-165;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGARGALLALLARAGLRKPESQEAAPLSGPCGRRVITSRIVGGEAEALGRWPQGSRLR 60
DB 1 MGARGALLALLARAGLRKPESQEAAPLSGPCGRRVITSRIVGGEAEALGRWPQGSRLR 60
QY 61 LWDHSVGVSLSHRWALTAHCFETYSDLSDPGMMVQFQGLTSMPSFWSLQAYTRYF 120
DB 61 LWDHSVGVSLSHRWALTAHCFETYSDLSDPGMMVQFQGLTSMPSFWSLQAYTRYF 120
QY 121 VSNILSPRYLGNSPYDIALVKLSAPVYTKHIQPICLQASTFFENRTDCWVTGMYIK 180
DB 121 VSNILSPRYLGNSPYDIALVKLSAPVYTKHIQPICLQASTFFENRTDCWVTGMYIK 180
QY 181 EDEALPSHTLOEVQVVAIINNSMCNHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGDSGG 240
DB 181 EDEALPSHTLOEVQVVAIINNSMCNHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGDSGG 240
QY 241 PLACNKDGLWYQIGVSVGCGRRPNRPGVVTNISHHFEWIKLMAQSGMSQDPSPWPLL 300
DB 241 PLACNKDGLWYQIGVSVGCGRRPNRPGVVTNISHHFEWIKLMAQSGMSQDPSPWPLL 300
QY 301 FFLMLWALPLGPV 314
DB 301 FFLMLWALPLGPV 314

RESULT 12

US-09-023-942A-4
; Sequence 4, Application US/09023942A
; Patent No. 6479274
; GENERAL INFORMATION:
; APPLICANT: (US only) ANTALIS Toni Marie and HOOPER John David
; TITLE OF INVENTION: NOVEL MOLECULES
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
; STREET: 400 GARDEN CITY PLAZA
; CITY: GARDEN CITY
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.2.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,942A
; FILING DATE: 13-FEB-1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: POS101/97
; FILING DATE: 13-FEB-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PP0422/97
; FILING DATE: 18-NOV-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: International PCT Application
; FILING DATE: 13-FEB-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: DIGILIO, FRANK S
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 11168
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742 4343
; TELEFAX: (516) 742 4366
; TELEX: 230 901 SANS UR
; INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:
LENGTH: 312 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-023-942A-4

Query Match 99.7%; Score 1706; DB 4; Length 312;
Best Local Similarity 99.4%; Pred. No. 1.8e-163;
Matches 312; Conservative 0; Mismatches 0; Indels 2; Gaps 1;

QY 1 MGARGALLALLARAGLRKPESQEAAPLSGPCGRRVITSRIVGGEAEALGRWPQGSRLR 60
DB 1 MGARGALLALLARAGLRKPESQEAAPLSGPCGRRVITSRIVGGEAEALGRWPQGSRLR 60
QY 61 LWDHSVGVSLSHRWALTAHCFETYSDLSDPGMMVQFQGLTSMPSFWSLQAYTRYF 120
DB 61 LWDHSVGVSLSHRWALTAHCFETYSDLSDPGMMVQFQGLTSMPSFWSLQAYTRYF 120
QY 121 VSNILSPRYLGNSPYDIALVKLSAPVYTKHIQPICLQASTFFENRTDCWVTGMYIK 180
DB 121 VSNILSPRYLGNSPYDIALVKLSAPVYTKHIQPICLQASTFFENRTDCWVTGMYIK 180
QY 181 EDEALPSHTLOEVQVVAIINNSMCNHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGDSGG 240
DB 181 EDEALPSHTLOEVQVVAIINNSMCNHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGDSGG 240
QY 241 PLACNKDGLWYQIGVSVGCGRRPNRPGVVTNISHHFEWIKLMAQSGMSQDPSPWPLL 300
DB 241 PLACNKDGLWYQIGVSVGCGRRPNRPGVVTNISHHFEWIKLMAQSGMSQDPSPWPLL 300
QY 301 FFLMLWALPLGPV 314
DB 299 FFLMLWALPLGPV 312

RESULT 13

US-09-386-642-53
; Sequence 53, Application US/09386642
; Patent No. 6420157
; GENERAL INFORMATION:
; APPLICANT: Darrow, Andrew
; APPLICANT: Qi, Jensen
; APPLICANT: Andrade-Gordon, Patricia
; TITLE OF INVENTION: Zymogen Activation System
; FILE REFERENCE: ORT-1028
; CURRENT APPLICATION NUMBER: US/09/386,642
; CURRENT FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 60
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 53
; LENGTH: 306
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Fusion gene of
; OTHER INFORMATION: human protease F in CFEK2 zymogen vector
US-09-386-642-53

Query Match 81.8%; Score 1414; DB 4; Length 306;
Best Local Similarity 89.3%; Pred. No. 4.4e-134;
Matches 260; Conservative 5; Mismatches 20; Indels 6; Gaps 2;

QY 10 ALLARAGLRKP---ESQEAAPLSGPCGRRVITSRIVGGEAEALGRWPQGSRLRWDHSV 66
DB 11 ALLGTFGCGVPDYKDDDDAALAAPDD---DDKIVGGYALELGRWPQGSRLRWDHSV 67
QY 67 CGVSLSHRWALTAHCFETYSDLSDPGMMVQFQGLTSMPSFWSLQAYTRYFVSNYL 126
DB 68 CGVSLSHRWALTAHCFETYSDLSDPGMMVQFQGLTSMPSFWSLQAYTRYFVSNYL 127
QY 127 SPRYLGNSPYDIALVKLSAPVYTKHIQPICLQASTFFENRTDCWVTGMYIKEDALP 186

Db 128 SPYLGNSPYDIALVKLSAPVYTKHIQPICLQASTFEFENRTDCWVTGWGVIKEDEALP 187
QY 187 SPHTLQVQVAIINNSMCHFLFKYSRDKIFGDMVCAGNAQGGKDACFGDGGPLACNK 246
Db 188 SPHTLQVQVAIINNSMCHFLFKYSRDKIFGDMVCAGNAQGGKDACFGDGGPLACNK 247
QY 247 DGLWYQIGVSVGWGCGRPNRPVYTNISHHFEWIKLMAQSGMSQDPDSW 297
Db 248 NGLWYQIGVSVGWGCGRPNRPVYTNISHHFEWIKLMAQSGMSQDPDSW 298

RESULT 14

US-09-023-942A-26
; Sequence 26, Application US/09023942A
; Patent No. 6479274
; GENERAL INFORMATION:
; APPLICANT: (US only) ANTALIS Toni Marie and HOOPER John David
; TITLE OF INVENTION: NOVEL MOLECULES
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
; STREET: 400 GARDEN CITY PLAZA
; CITY: GARDEN CITY
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,942A
; FILING DATE: 13-FEB-1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: POS101/97
; FILING DATE: 13-FEB-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PP0422/97
; FILING DATE: 18-NOV-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: International PCT Application
; FILING DATE: 13-FEB-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: DIGILIO, FRANK S
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 11168
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742 4343
; TELEFAX: (516) 742 4366
; TELEX: 230 901 SANS UR
; INFORMATION FOR SEQ ID NO: 26:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 285 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-023-942A-26

Query Match 64.4%; Score 1113.5; DB 4; Length 285;
Best Local Similarity 69.1%; Pred. No. 7.3e-104;
Matches 197; Conservative 35; Mismatches 50; Indels 3; Gaps 2;
QY 29 LSGPCGRVITSRVGGEDAEELGWPNQGSRLWDSHVCVSLSHSHWALTAHCFETYS 88
Db 3 LSGPCGHRITPSRVGGEDAEELGWPNQGSRLWGNHLCGATLLNRWVLTAAHCFQ-X 60
QY 89 DLSDPSGWMVQFGOLTSPGFSIQAQYTRYFVSNVYLSRYLNSPYDIALVKLSAPVT 148
Db 61 D-NDPFDWTVQFGLTSRPSLWNLQVSNRYQIEDIFLSPKYSEQYENDIALKLSFVT 119
QY 149 YTKHIQPICLQASTFEFENRTDCWVTGWGVIKEDEALPSPHTLQVQVAIINNSMCHFL 208

Db 120 YNNFIQPICLLSTYKFNRTDCWVTGWGAIGDESLPSFNTLQEVQVAIINNSMCHMY 179
QY 209 LKYSRDKIFGDMVCAGNAQGGKDACFGDGGPLACNKDGLWYQIGVSVGWGCGRPNRP 268
Db 180 KXPDFRTNIGDMVVCAGTPEGGKDACFGDGGPLACDQTVWYQGVSVGWGCGRPNRP 239
QY 269 GYVTNISHHFEWIKLMAQSGMSQDPDSWPLFFPLLWALPLLP 313
Db 240 GYVTNISHHYNMIQSTWIRNGLLRDPVPLLLFTLAWASSLLRP 284

RESULT 15

US-09-386-653A-7
; Sequence 7, Application US/09386653A
; Patent No. 6458564
; GENERAL INFORMATION:
; APPLICANT: Andrade-Gordon, Patricia
; APPLICANT: Barrow, Andrew
; APPLICANT: Qi, Jian-shen
; TITLE OF INVENTION: DNA encoding the novel human serine
; FILE REFERENCE: ORT-1032
; CURRENT APPLICATION NUMBER: US/09/386,653A
; CURRENT FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 7
; LENGTH: 290
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-386-653A-7

Query Match 33.2%; Score 573; DB 4; Length 290;
Best Local Similarity 42.6%; Pred. No. 2e-49;
Matches 123; Conservative 44; Mismatches 100; Indels 22; Gaps 8;
QY 4 RGALLALLARAGLRKPESQEAAPLSGPCGRRVITSRVGGEDAEELGRWPNQGSRLWMD 63
Db 3 RPAAPVPLLLLCFGSQRAKAATA-----CGRPRMLNRVMVGQDTQEGEWPQVSIQRNG 56
QY 64 SHVCGVSLSHRWALTAHCFETYSIDLSDPSGWMVQFG--OLTSMPFSWLSQAVYTRYFV 121
Db 57 SHFCGSLIAEQWLVLTAAHCFR---NTSETSLYQVLLGARQLVQP---GPHAMYAR--V 107
QY 122 SNIVLSPYLGN-SPYDIALVKLSAPVYTKHIQPICLQASTFEFENRTDCWVTGWGIK 180
Db 108 RQVESNPLYQGTASSADVALVEAPVPFTNYILPVCLPDPSPVIFETGMNCWVTGWSGS 167
QY 181 EDEALPSPHTLQEVQVAIINNSMCHFLK---YSFR-KDIFGDMVCAGNAQGGKDACFG 236
Db 168 EEDLLPEPRILQKLAVPITDTPKCNLLYSKDTFEGYQPKTIKNDMLCAGFEKGKDACG 227
QY 237 DSGGPLACNKDGLWYQIGVSVGWGCGRPNRPVYTNISHHFEWIKL 285
Db 228 DSGGPLVCLVGQSWLQAGVISGEGCARQNRPGVYIRVTAHNNHRII 276

Search completed: February 27, 2005, 20:24:33
Job time : 31.0958 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 27, 2005, 20:03:40 ; Search time 117.374 Seconds
(without alignments)
1034.667 Million cell updates/sec

Title: US-10-040-647-6

Perfect score: 1728

Sequence: 1 MGARGALLALLARAGLRK.....PSWLLFFPLLNALPLGPV 314

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

A_Geneseq_16Dec04.*
1: geneseqp1980s.*
2: geneseqp1990s.*
3: geneseqp2000s.*
4: geneseqp2001s.*
5: geneseqp2002s.*
6: geneseqp2003as.*
7: geneseqp2003bs.*
8: geneseqp2004s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1728	100.0	314	2 AAW77297	AAW77297 Amino aci
2	1723	99.7	314	2 AAW77296	AAW77296 Amino aci
3	1723	99.7	314	2 AAW97116	AAW97116 A human e
4	1723	99.7	314	2 AAY06434	AAY06434 Human pro
5	1723	99.7	314	2 AAY13388	AAY13388 Amino aci
6	1723	99.7	314	3 AAB12132	AAB12132 Hydrophob
7	1723	99.7	314	3 ADC78569	ADC78569 Human PRO
8	1723	99.7	314	3 AAB80256	AAB80256 Human PRO
9	1723	99.7	314	4 AAU02223	AAU02223 Human ext
10	1723	99.7	314	5 AAU17010	AAU17010 Human eos
11	1723	99.7	314	6 ABU71634	ABU71634 Human PRO
12	1723	99.7	314	6 ABU71489	ABU71489 Human PRO
13	1723	99.7	314	6 ABU71935	ABU71935 Human sec
14	1723	99.7	314	6 ABO01818	ABO01818 Novel hum
15	1723	99.7	314	6 ABUS4391	ABUS4391 Human sec
16	1723	99.7	314	6 ABO47406	ABO47406 Human sec
17	1723	99.7	314	6 ABU64543	ABU64543 Human sec
18	1723	99.7	314	6 ABU67389	ABU67389 Human sec
19	1723	99.7	314	6 ABO14909	ABO14909 Human sec
20	1723	99.7	314	6 ABUS9666	ABUS9666 Novel hum
21	1723	99.7	314	6 ABO14848	ABO14848 Human sec
22	1723	99.7	314	6 ADB29462	ADB29462 Human sec
23	1723	99.7	314	6 ADA18318	ADA18318 Human sec
24	1723	99.7	314	6 ABO32800	ABO32800 Human sec
25	1723	99.7	314	6 ABO34860	ABO34860 Human PRO

26	1723	99.7	314	6 ADA16293	Ada16293 Human sec
27	1723	99.7	314	6 ADA42438	Ada42438 Human sec
28	1723	99.7	314	6 ABO17538	Abol17538 Human PRO
29	1723	99.7	314	7 ADA16717	Ada16717 Human sec
30	1723	99.7	314	7 ADA13146	Ada13146 Human sec
31	1723	99.7	314	7 ADA42014	Ada42014 Human sec
32	1723	99.7	314	7 ADA17361	Ada17361 Human sec
33	1723	99.7	314	7 ADA42864	Ada42864 Human sec
34	1723	99.7	314	7 ABO17599	Abol17599 Human PRO
35	1723	99.7	314	7 ADB80572	Adb80572 Ovarian c
36	1723	99.7	314	7 ADB77783	Adb77783 Human sec
37	1723	99.7	314	7 ADB74919	Adb74919 Human sec
38	1723	99.7	314	7 ADC28565	Adc28565 Human sec
39	1723	99.7	314	7 ADC39765	Adc39765 Human sec
40	1723	99.7	314	7 ADC40279	Adc40279 Human sec
41	1723	99.7	314	7 ADC19103	Adc19103 Human sec
42	1723	99.7	314	7 ADC34403	Adc34403 Human sec
43	1723	99.7	314	7 ADC29458	Adc29458 Human sec
44	1723	99.7	314	7 ADC28989	Adc28989 Human sec
45	1723	99.7	314	7 ADC40874	Adc40874 Human sec

ALIGNMENTS

RESULT 1

AAW77297

ID AAW77297 standard; protein; 314 AA.

XX AAW77297;

AC AAW77297;

XX 07-JAN-1999 (first entry)

DT 07-JAN-1999 (first entry)

XX Amino acid sequence of long isoform of HELA2.

XX Serine protease; regulation; cell activity; viability; HELA2; ATC2;

KW BCOM3; testisin; fertility; suppressor; testicular germ cell cancer;

KW seminoma; testis-specific expression; antitumour; sperm development;

KW infertility.

XX Homo sapiens.

XX WO9836054-A1.

XX 20-AUG-1998.

XX 13-FEB-1998; 98WO-AU0000085.

XX 13-FEB-1997; 97AU-00005101.

XX 18-NOV-1997; 97AU-00000422.

XX (AMRA-) AMRAD OPERATIONS PTY LTD.

XX Antalis TM, Hooper JD;

XX WPI; 1998-480768/41.

XX N-PSDS; AAV59119.

XX New serine protease(s) and kinase involved in regulating cell activity

PT and viability - particularly the testis-specific protease HELA2 used for

PT modulation of fertility and as tumour suppressor.

XX Claim 3; Page 62-64; 167pp; English.

XX The present sequence represents the amino acid sequence of the long

CC isoform of HELA2. cDNA generated from HeLa cells and PAI-2 expressing

CC HeLa cells was amplified using PCR primers AAV48312-13. Three new

CC sequences were detected in the 480 bp amplicon. These sequences are

CC designated HELA2 and ATC2 which have high homology to serine proteases

CC and BCOM3 which has homology to a kinase. The proteins are involved in or

CC associated with regulation of cell activity and/or viability.

CC Administration of recombinant HELA2 (also called testisin) is used to

CC increase fertility. Downregulation of HELA2 reduces fertility. HELA2 is

CC also a suppressor of testicular germ cell cancers (seminoma) and is also
 CC expressed in some non-testicular cancers (of colon, pancreas, prostate
 CC and ovary), so is a marker/potential therapeutic target for cancer. The
 CC promoter from the HELA2 gene is useful for testis-specific expression of
 CC other genes, e.g. for gene therapy or modulation of fertility. Drugs that
 CC block activity of HELA2 should have antitumour activity (other than in
 CC testis) while in testis recombinant HELA2 should stop growth of tumours
 CC and normalise sperm development (eliminating the need for orchidectomy).
 CC Identification of mutant forms of HELA2 can be used to diagnose
 CC infertility
 XX

SQ Sequence 314 AA;

Query Match 100.0%; Score 1728; DB 2; Length 314;
 Best Local Similarity 100.0%; Pred. No. 5.9e-147;
 Matches 314; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGARGALLALLARAGLRKPESQEAAPLSPGCGRRVITSRIYGGEDAELGRWPQGSRLR 60
 Db |||||
 Qy 61 LWDHSHVCGVLSLHSHRWALTAHCFETYSDLSDPGWMVQFGLTSMPSFSLQAYYTRYF 120
 Db |||||
 Qy 61 LWDHSHVCGVLSLHSHRWALTAHCFETYSDLSDPGWMVQFGLTSMPSFSLQAYYTRYF 120
 Qy 121 VSNILSPRYLGNSPYDIALVKLSAPVYTKHQIPICLOASTFEFENRTDCWVTGWGYIK 180
 Db |||||
 Qy 121 VSNILSPRYLGNSPYDIALVKLSAPVYTKHQIPICLOASTFEFENRTDCWVTGWGYIK 180
 Qy 181 EDEALPSPHTLQEVQVAIINNSMCNHLFLKYSFRKDI FGDMVCAGNAQGGKDACFGDSGG 240
 Db |||||
 Qy 181 EDEALPSPHTLQEVQVAIINNSMCNHLFLKYSFRKDI FGDMVCAGNAQGGKDACFGDSGG 240
 Qy 241 PLACNKDGLWYQIGVSWGVCGRPNRPVYTNISHHFEWIKLMAQSGMSQDPSPWPLL 300
 Db |||||
 Qy 241 PLACNKDGLWYQIGVSWGVCGRPNRPVYTNISHHFEWIKLMAQSGMSQDPSPWPLL 300
 Qy 301 FFPILLWALPLLGPV 314
 Db |||||
 Qy 301 FFPILLWALPLLGPV 314

RESULT 2

AAW77296
 ID AAW77296 standard; protein; 314 AA.
 XX
 AC AAW77296;
 XX
 DT 07-JAN-1999 (first entry)
 XX
 DE Amino acid sequence of the short isoform of HELA2.
 XX
 KW Serine protease; regulation; cell activity; viability; HELA2; ATC2;
 KW BCOM3; testisin; fertility; suppressor; testicular germ cell cancer;
 KW seminoma; testis-specific expression; antitumour; sperm development;
 KW infertility.
 XX
 OS Homo sapiens.

XX WO9836054-A1.

XX PD 20-AUG-1998.

XX PF 13-FEB-1998; 98WO-AU0000085.

XX PR 13-FEB-1997; 97AU-00005101.

XX PR 18-NOV-1997; 97AU-00000422.

XX PA (AMRA-) AMRAD OPERATIONS PTY LTD.

XX PI Antalis TM, Hooper JD;

XX XX WPI; 1998-480768/41.

DR N-PSDB; AAV59118.

XX New serine protease(s) and kinase involved in regulating cell activity
 PT and viability - particularly the testis-specific protease HELA2 used for
 PT modulation of fertility and as tumour suppressor.

XX Claim 2; Fig 6; 167pp; English.

XX The present sequence represents the amino acid sequence of the short
 CC isoform of HELA2. CDNA generated from HeLa cells and PAI-2 expressing
 CC HeLa cells was amplified using PCR primers AAV48312-13. Three new
 CC sequences were detected in the 480 bp amplicon. These sequences are
 CC designated HELA2 and ATC2 which have high homology to serine proteases
 CC and BCOM3 which has homology to a kinase. The proteins are involved in or
 CC associated with regulation of cell activity and/or viability.
 CC Administration of recombinant HELA2 (also called testisin) is used to
 CC increase fertility. Downregulation of HELA2 reduces fertility. HELA2 is
 CC also a suppressor of testicular germ cell cancers (seminoma) and is also
 CC expressed in some non-testicular cancers (of colon, pancreas, prostate
 CC and ovary), so is a marker/potential therapeutic target for cancer. The
 CC promoter from the HELA2 gene is useful for testis-specific expression of
 CC other genes, e.g. for gene therapy or modulation of fertility. Drugs that
 CC block activity of HELA2 should have antitumour activity (other than in
 CC testis) while in testis recombinant HELA2 should stop growth of tumours
 CC and normalise sperm development (eliminating the need for orchidectomy).
 CC Identification of mutant forms of HELA2 can be used to diagnose
 CC infertility
 XX

SQ Sequence 314 AA;

Query Match 99.7%; Score 1723; DB 2; Length 314;
 Best Local Similarity 99.7%; Pred. No. 1.7e-146;
 Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGARGALLALLARAGLRKPESQEAAPLSPGCGRRVITSRIYGGEDAELGRWPQGSRLR 60
 Db |||||
 Qy 1 MGARGALLALLARAGLRKPESQEAAPLSPGCGRRVITSRIYGGEDAELGRWPQGSRLR 60
 Qy 61 LWDHSHVCGVLSLHSHRWALTAHCFETYSDLSDPGWMVQFGLTSMPSFSLQAYYTRYF 120
 Db |||||
 Qy 61 LWDHSHVCGVLSLHSHRWALTAHCFETYSDLSDPGWMVQFGLTSMPSFSLQAYYTRYF 120
 Qy 121 VSNILSPRYLGNSPYDIALVKLSAPVYTKHQIPICLOASTFEFENRTDCWVTGWGYIK 180
 Db |||||
 Qy 121 VSNILSPRYLGNSPYDIALVKLSAPVYTKHQIPICLOASTFEFENRTDCWVTGWGYIK 180
 Qy 181 EDEALPSPHTLQEVQVAIINNSMCNHLFLKYSFRKDI FGDMVCAGNAQGGKDACFGDSGG 240
 Db |||||
 Qy 181 EDEALPSPHTLQEVQVAIINNSMCNHLFLKYSFRKDI FGDMVCAGNAQGGKDACFGDSGG 240
 Qy 241 PLACNKDGLWYQIGVSWGVCGRPNRPVYTNISHHFEWIKLMAQSGMSQDPSPWPLL 300
 Db |||||
 Qy 241 PLACNKDGLWYQIGVSWGVCGRPNRPVYTNISHHFEWIKLMAQSGMSQDPSPWPLL 300
 Qy 301 FFPILLWALPLLGPV 314
 Db |||||
 Qy 301 FFPILLWALPLLGPV 314

RESULT 3

AAW97116

ID AAW97116 standard; protein; 314 AA.

XX

AC AAW97116;

XX

DT 04-MAY-1999 (first entry)

XX A human eosinophil serine protease.

XX Human; eosinophil; serine protease; allergic disease; infectious disease;
 XX tumour; granulomatous disease; collagen disease; vascular inflammation.

OS Homo sapiens.

XX JPI1032768-A.
XX 09-FEB-1999.
XX 16-JUL-1997; 97JP-00191319.
XX 16-JUL-1997; 97JP-00191319.
XX (ONOI) ONO PHARM CO LTD.
XX WPI; 1999-183825/16.
XX N-PSDB; AAX15336.
XX New eosinophils serine protease - useful for prevention and treatment of
XX allergic, infectious, tumor, granulomatous and collagen diseases.
XX Claim 1; Page 9-10; 18pp; Japanese.
XX The present sequence represents a human eosinophil serine protease. The
XX protease is useful in drug compositions for the prevention and treatment
XX of allergic diseases, infectious diseases, tumour diseases, granulomatous
XX diseases, collagen diseases and vascular inflammation
XX
XX Sequence 314 AA;
Query Match 99.7%; Score 1723; DB 2; Length 314;
Best Local Similarity 99.7%; Pred. No. 1.7e-146;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MGARGALLALLARAGLRKPESEAPLSPGCGRRVITSRIVGDEALGRWPQGSRLR 60
Db 1 MGARGALLALLARAGLRKPESEAPLSPGCGRRVITSRIVGDEALGRWPQGSRLR 60
Qy 61 LWDSHVCGVLSLRHWALTAACHFETYSDDLSPSGMWVQFGQLTSMPSFSLQAYTYRYF 120
Db 61 LWDSHVCGVLSLRHWALTAACHFETYSDDLSPSGMWVQFGQLTSMPSFSLQAYTYRYF 120
Qy 121 VSNITLSPRYLGNSPYDIALVKLSAPVYTKHIQICLQASTFFENRTDCWVTGWYIK 180
Db 121 VSNITLSPRYLGNSPYDIALVKLSAPVYTKHIQICLQASTFFENRTDCWVTGWYIK 180
Qy 181 EDEALPSPHTLOEVQVAILNNMCMNHLFLKYSFRKIDFGDMVCAGNAGGKDACFGDSGG 240
Db 181 EDEALPSPHTLOEVQVAILNNMCMNHLFLKYSFRKIDFGDMVCAGNAGGKDACFGDSGG 240
Qy 241 PLACNKGWLWYQIGVWSGVGCGRPNGPVYTNISHHFEWIKLMAQSGMSQDPSPWPLL 300
Db 241 PLACNKGWLWYQIGVWSGVGCGRPNGPVYTNISHHFEWIKLMAQSGMSQDPSPWPLL 300
Qy 301 FFLPLWALPLLPV 314
Db 301 FFLPLWALPLLPV 314
RESULT 4
AAY06434
ID AAY06434 standard; protein; 314 AA.
XX AAY06434;
XX AAY06434;
XX 27-SEP-1999 (first entry)
XX Human protease HUPM-3.
XX Protease; human; HUPM-3; cell proliferation; cancer; immune disorder;
XX inflammation; therapy.
XX Homo sapiens.
XX Key Location/Qualifiers
XX Peptide 1..19
/note= "putative signal peptide"

FT Protein 20..314
FT Modified-site /note= "putative mature protein"
FT Modified-site 39 /note= "protein kinase C phosphorylation site"
FT Modified-site 58 /note= "protein kinase C phosphorylation site"
FT Modified-site 73 /note= "protein kinase C phosphorylation site"
FT Active-site 82 /note= "protein kinase C phosphorylation site"
FT Modified-site 86 /note= "casein kinase II phosphorylation site"
FT Modified-site 127 /note= "protein kinase C phosphorylation site"
FT Modified-site 134 /note= "casein kinase II phosphorylation site"
FT Modified-site 161 /note= "casein kinase II phosphorylation site"
FT Modified-site 167 /note= "casein kinase II phosphorylation site"
FT Modified-site 190 /note= "N-glycosylated"
FT Modified-site 200 /note= "casein kinase II phosphorylation site"
FT Modified-site /note= "N-glycosylated"
FT Modified-site 212 /note= "protein kinase C phosphorylation site"
FT Active-site 238 /note= "N-glycosylated"
FT Modified-site 273 /note= "N-glycosylated"
FT Modified-site 291 /note= "casein kinase II phosphorylation site"
XX W09936550-A2.
XX 22-JUL-1999.
XX 12-JAN-1999; 99WO-US0000655.
XX 16-JAN-1998; 98US-00008271.
XX (INCY-) INCYTE PHARM INC.
XX Bandman O, Hillman JL, Yue H, Guegler KJ, Corley NC, Tang YT;
XX Shan F;
XX WPI; 1999-430616/36.
XX N-PSDB; AAX87151.
XX Novel human protease molecules useful in the treatment of developmental
XX disorders and/or cancers.
XX Claim 1; Page 71-72; 90pp; English.
XX The present sequence represents novel human protease HUPM-3, as deduced
XX from the consensus sequence (see AAX87151) of overlapping cDNA clones
XX obtained from various libraries. Northern analysis shows expression of
XX HUPM-3 in cardiovascular, haematopoietic and male reproductive cDNA
XX libraries. Approximately 86% of these libraries are associated with
XX neoplastic disorders. The invention provides 12 new human proteases, i.e.
XX HUPM-1 to -12 (see AAY06432-43), and the polynucleotides encoding them
XX (see AAX87149-60). Also provided are vectors, host cells and methods for
XX producing HUPM polypeptides, as well as agonists and antagonists of HUPM.
XX Methods for treating or preventing cell proliferative disorders and
XX immune disorders using HUPM or HUPM antagonists are claimed
XX
XX Sequence 314 AA;
Query Match 99.7%; Score 1723; DB 2; Length 314;
Best Local Similarity 99.7%; Pred. No. 1.7e-146;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MGARGALLALLARAGLRKPESEAPLSPGCGRRVITSRIVGDEALGRWPQGSRLR 60
Db 1 MGARGALLALLARAGLRKPESEAPLSPGCGRRVITSRIVGDEALGRWPQGSRLR 60

Qy 61 LWDHVGCVSLSHRWALTAACFETYSDLSDPSGMMVQFGOLTSMPSPWSLQAYTRYF 120
 |||||
 Db 61 LWDHVGCVSLSHRWALTAACFETYSDLSDPSGMMVQFGOLTSMPSPWSLQAYTRYF 120
 |||||
 Qy 121 VSNLYLSPRYLGNFPIALVKLSAPVYTYKHQIPICLOASTFFENRTDCWVTGWGYIK 180
 |||||
 Db 121 VSNLYLSPRYLGNFPIALVKLSAPVYTYKHQIPICLOASTFFENRTDCWVTGWGYIK 180
 |||||
 Qy 181 EDEALPSHTLOEVOVAIINNSMCHLFLKYSFRKDI FGMVCAAGKQKACFGDSGG 240
 |||||
 Db 181 EDEALPSHTLOEVOVAIINNSMCHLFLKYSFRKDI FGMVCAAGKQKACFGDSGG 240
 |||||
 Qy 241 PLACNKDGLWYQIGVSWGCGRPNRPVGVYTNISHHFQIKLMAQSGMSQPPSPWPLL 300
 |||||
 Db 241 PLACNKGLMWYQIGVSWGCGRPNRPVGVYTNISHHFQIKLMAQSGMSQPPSPWPLL 300
 |||||
 Qy 301 FPLLWALPLIGPV 314
 |||||
 Db 301 FPLLWALPLIGPV 314
 |||||
 RESULT 5
 AAY13388
 ID AAY13388 standard; protein; 314 AA.
 XX AC AAY13388;
 XX AC AAY13388;
 XX DT 25-JUN-1999 (first entry)
 XX DE Amino acid sequence of protein PRO303.
 XX KW Secreted protein; transmembrane protein; human; enterocolitis;
 KW Zollinger-Ellison syndrome; gastrointestinal ulceration;
 KW congenital microvillus atrophy; skin disease; cell growth;
 KW abnormal keratinocyte differentiation; psoriasis; epithelial cancer;
 KW Parkinson's disease; Alzheimer's disease; ALS; neuropathy; fibromodulin;
 KW dermal scarring; Usher Syndrome; Atrophla areata; anti-thrombotic;
 KW wound healing; tissue repair.
 XX OS Homo sapiens.
 XX FN WO9914328-A2.
 XX PD 25-MAR-1999.
 XX PF 16-SEP-1998; 98WO-US019330.
 XX PR 17-SEP-1997; 97US-0059113P.
 PR 17-SEP-1997; 97US-0059115P.
 PR 17-SEP-1997; 97US-0059117P.
 PR 17-SEP-1997; 97US-0059119P.
 PR 17-SEP-1997; 97US-0059121P.
 PR 17-SEP-1997; 97US-0059122P.
 PR 17-SEP-1997; 97US-0059184P.
 PR 18-SEP-1997; 97US-0059263P.
 PR 18-SEP-1997; 97US-0059266P.
 PR 15-OCT-1997; 97US-0062125P.
 PR 17-OCT-1997; 97US-0062285P.
 PR 17-OCT-1997; 97US-0062287P.
 PR 21-OCT-1997; 97US-0063486P.
 PR 24-OCT-1997; 97US-0062814P.
 PR 24-OCT-1997; 97US-0063127P.
 PR 24-OCT-1997; 97US-0063045P.
 PR 24-OCT-1997; 97US-0063120P.
 PR 24-OCT-1997; 97US-0063121P.
 PR 24-OCT-1997; 97US-0063122P.
 PR 24-OCT-1997; 97US-0063128P.
 PR 27-OCT-1997; 97US-0063327P.
 PR 27-OCT-1997; 97US-0063329P.
 PR 28-OCT-1997; 97US-0063541P.
 PR 28-OCT-1997; 97US-0063542P.
 PR 28-OCT-1997; 97US-0063544P.

PR 28-OCT-1997; 97US-0063549P.
 PR 28-OCT-1997; 97US-0063550P.
 PR 28-OCT-1997; 97US-0063554P.
 PR 29-OCT-1997; 97US-0063435P.
 PR 29-OCT-1997; 97US-0063704P.
 PR 29-OCT-1997; 97US-0063732P.
 PR 29-OCT-1997; 97US-0063734P.
 PR 29-OCT-1997; 97US-0063735P.
 PR 29-OCT-1997; 97US-0063738P.
 PR 29-OCT-1997; 97US-0064215P.
 PR 31-OCT-1997; 97US-0063870P.
 PR 31-OCT-1997; 97US-0064103P.
 PR 03-NOV-1997; 97US-0064248P.
 PR 07-NOV-1997; 97US-0064809P.
 PR 12-NOV-1997; 97US-0065186P.
 PR 17-NOV-1997; 97US-0065846P.
 PR 18-NOV-1997; 97US-0065693P.
 PR 21-NOV-1997; 97US-0066120P.
 PR 21-NOV-1997; 97US-0066364P.
 PR 24-NOV-1997; 97US-0066453P.
 PR 24-NOV-1997; 97US-0066466P.
 PR 24-NOV-1997; 97US-0066511P.
 PR 24-NOV-1997; 97US-0066770P.
 PR 24-NOV-1997; 97US-0066772P.
 PR 25-NOV-1997; 97US-0066840P.
 XX (GETH) GENENTECH INC.
 PA Wood WI, Gurney AL, Goddard A, Pennica D, Chen J, Yuan J;
 XX WPI; 1999-229533/19.
 DR N-PSDB; AAX52259.
 XX New isolated human genes and polypeptides used in, e.g. treatment of
 PT gastrointestinal ulceration.
 XX Claim 12; Fig 92; 320pp; English.
 CC AAY13344-403 represent secreted and transmembrane human proteins. The
 CC cDNA sequences are obtained from cDNA libraries, prepared from fetal
 CC lung, fetal kidney, fetal brain, fetal liver and fetal retina. The
 CC encoded polypeptides have specific uses based on their homology to known
 CC polypeptides, e.g. PRO211 and PRO217 can be used for disorders associated
 CC with the preservation and maintenance of gastrointestinal mucosa and the
 CC repair of acute and chronic mucosal lesions (e.g. enterocolitis,
 CC Zollinger-Ellison syndrome, gastrointestinal ulceration and congenital
 CC microvillus atrophy), skin diseases associated with abnormal keratinocyte
 CC differentiation (e.g. psoriasis, epithelial cancers such as lung squamous
 CC cell carcinoma of the vulva and gliomas), potent effects on cell growth
 CC and development, diseases related to growth or survival of nerve cells
 CC including Parkinson's disease, Alzheimer's disease, ALS, neuropathies or
 CC cancer. PRO265 can be used as for fibromodulin, e.g. for reducing dermal
 CC scarring. PRO264 can be used as a target for anti-tumor drugs. PRO533 may
 CC be used in the treatment of Usher Syndrome or Atrophla areata; PRO269 can
 CC be used as an anti-thrombotic agent; PRO287 polypeptides and portions may
 CC have therapeutic applications in wound healing and tissue repair; PRO317
 CC can be used for treating problems of the kidney, uterus, endometrium,
 CC blood vessels, or related tissue, e.g. in the heart of genital tract
 XX SQ Sequence 314 AA;
 Query Match 99.7%; Score 1723; DB 2; Length 314;
 Best Local Similarity 99.7%; Pred. No. 1.7e-146;
 Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 MGARGALLALLIARAGLRKPSQEAAPLSPGCGRRVITSRIVGGDAELGRWPGQSLR 60
 |||||
 Db 1 MGARGALLALLIARAGLRKPSQEAAPLSPGCGRRVITSRIVGGDAELGRWPGQSLR 60
 |||||
 Qy 61 LWDHVGCVSLSHRWALTAACFETYSDLSDPSGMMVQFGOLTSMPSPWSLQAYTRYF 120
 |||||
 Db 61 LWDHVGCVSLSHRWALTAACFETYSDLSDPSGMMVQFGOLTSMPSPWSLQAYTRYF 120
 |||||

QY 121 VSNILSPRYLGNSPYDIALVKLSAPVYTKHIQIPICLOASTFEFENRTDCWVTGWGVIK 180
Db 121 VSNILSPRYLGNSPYDIALVKLSAPVYTKHIQIPICLOASTFEFENRTDCWVTGWGVIK 180
QY 181 EDEALPSPHTLQEVQVAIINNMCNHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGDSGG 240
Db 181 EDEALPSPHTLQEVQVAIINNMCNHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGDSGG 240
QY 241 PLACNKDGLWYQIGVSWGCGRPNRPVYTNISHHFEWTKLMAQSGMSQPPSPWPLL 300
Db 241 PLACNKGLWYQIGVSWGCGRPNRPVYTNISHHFEWTKLMAQSGMSQPPSPWPLL 300
QY 301 FFPLLWALPLIGPV 314
Db 301 FFPLLWALPLIGPV 314

RESULT 6

ID AAB12132 standard; protein; 314 AA.
XX AAB12132;
AC AAB12132;
DT 02-FEB-2001 (first entry)
XX 02-FEB-2001 (first entry)

DE Hydrophobic domain protein from clone HP03116 isolated from KB cells.
XX Human; secreted protein; membrane protein; hydrophobic domain;
KW proliferation control; differentiation induction; material transport;
KW biophylaxis; signal receptor; ion channel; transporter; immunostimulant;
KW immunosuppressant; haematopoiesis regulator; chemotactic; chemokinetic;
KW haemostatic; thrombolytic; anti-inflammatory; tumour inhibition;
KW autoimmune disease; Alzheimer's disease; Parkinson's disease; cancer.

XX Homo sapiens.
XX WO200029448-A2.
PN 25-MAY-2000.
XX 25-MAY-2000.
XX 17-NOV-1999; 99WO-JP006412.
XX 17-NOV-1998; 98JP-00326255.
PR 22-DEC-1998; 98JP-00364315.
PR 16-MAR-1999; 99JP-00069811.
PR 27-APR-1999; 99JP-00119299.
PR 19-MAY-1999; 99JP-00138169.

XX (SAGA) SAGAMI CHEM RES CENT.
PA (PROT-) PROTEGENE INC.
XX Kato S, Kimura T;
XX WPI; 2000-387753/33.
DR N-FSD; AAA62005, AAA62015.

XX Proteins comprising hydrophobic regions, such as secretory and membrane
PT proteins, useful in research and diagnostics and having various
PT activities e.g. immunomodulatory, antiinflammatory, chemokinetic,
PT hemostatic, thrombolytic.

XX Claim 1; Page 238-240; 410pp; English.
XX Secretory proteins play important roles in the proliferation control, the
CC differentiation induction, the material transport and the biophylaxis of
CC cells. Membrane proteins have important roles as signal receptors, ion
CC channels and transporters. The present sequence is a human protein which
CC has at least one hydrophobic domain. This protein may be a secretory or a
CC membrane protein. The present protein may have cytokine and cell
CC proliferation/differentiation activity, immune stimulating or suppressing
CC activity, haematopoiesis activity, tissue growth activity,
CC activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
CC and thrombolytic activity, anti-inflammatory activity and tumour

CC inhibition activity. The present protein could therefore be used for
CC treatment of autoimmune disease, Alzheimer's disease, Parkinson's
CC disease, and cancer
XX
SQ Sequence 314 AA;

Query Match 99.7%; Score 1723; DB 3; Length 314;
Best Local Similarity 99.7%; Pred. No. 1.7e-146;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGARGALLALLARAGLRKPESQEAAPLSPGCGRRVITTSRIVGDEAELGRWPQGSRLR 60
Db 1 MGARGALLALLARAGLRKPESQEAAPLSPGCGRRVITTSRIVGDEAELGRWPQGSRLR 60
QY 61 LWDSHVCGVSLLSHRWALTAACFPETYSDDLSDPSGMVQFGLTSMPSFWSLQAYYTRYF 120
Db 61 LWDSHVCGVSLLSHRWALTAACFPETYSDDLSDPSGMVQFGLTSMPSFWSLQAYYTRYF 120
QY 121 VSNILSPRYLGNSPYDIALVKLSAPVYTKHIQIPICLOASTFEFENRTDCWVTGWGVIK 180
Db 121 VSNILSPRYLGNSPYDIALVKLSAPVYTKHIQIPICLOASTFEFENRTDCWVTGWGVIK 180
QY 181 EDEALPSPHTLQEVQVAIINNMCNHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGDSGG 240
Db 181 EDEALPSPHTLQEVQVAIINNMCNHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGDSGG 240
QY 241 PLACNKDGLWYQIGVSWGCGRPNRPVYTNISHHFEWTKLMAQSGMSQPPSPWPLL 300
Db 241 PLACNKGLWYQIGVSWGCGRPNRPVYTNISHHFEWTKLMAQSGMSQPPSPWPLL 300
QY 301 FFPLLWALPLIGPV 314
Db 301 FFPLLWALPLIGPV 314

RESULT 7

ADCT78569
ID ADC78569 standard; protein; 314 AA.
XX ADC78569;
AC ADC78569;
DT 01-JAN-2004 (first entry)
XX Human PRO303 protein.
DE antiinflammatory; antiulcer; cytostatic; antipsoriatic; antiparkinsonian;
KW neurotropic; neuroprotective; vasotropic; chemotactic; angiogenic;
KW neurotrophic; osteopathic; antiasthmatic; antiarthritic; antirheumatic;
KW antiarteriosclerotic; cardiant; antidiabetic; cerebroprotective;
KW thrombolytic; immunomodulator; enterocolitis; Zollinger-Ellison syndrome;
KW gastrointestinal ulceration; psoriasis; cancer; Parkinson's disease;
KW Alzheimer's; ALS; neuropathy; dermal scarring; wound healing;
KW nerve repair; thrombosis; bone; cartilage formation; angiogenesis;
KW asthma; rheumatoid arthritis; multiple sclerosis; inflammatory disorder;
KW atherosclerosis; cardiac injury; infertility; premature aging; AIDS;
KW diabetes; stroke; gene therapy; transgenic; PRO; human.
XX Homo sapiens.
XX WO200015796-A2.
XX 23-MAR-2000.
XX 15-SEP-1999; 99WO-US021090.
PR 16-SEP-1998; 98WO-US019330.
XX (GSETH) GENENTECH INC.
PI Chen J, Goddard A, Gurney AL, Hillan K, Pennica D, Wood WT;
PI Yuan J;
XX WPI; 2000-271434/23.

DR	N-PSDB; ADC78568.
XX	
PT	Novel nucleic acids encoding secreted and transmembrane polypeptides with
PT	homology, e.g. to growth and cancer-associated antigens.
XX	
PS	Claim 12; SEQ ID NO 257; 355pp; English.
XX	
CC	The invention relates to a novel nucleic acid encoding a PRO polypeptide.
CC	The polypeptides and polynucleotides of the invention may be useful as
CC	research tools and as therapeutics for treating enterocolitis, Zollinger-
CC	Ellison syndrome, gastrointestinal ulceration, psoriasis, cancer,
CC	Parkinson's disease, Alzheimer's disease, ALS, neuropathies, dental
CC	scarring and wound healing, nerve repair, thrombosis, bone and/or
CC	cartilage formation, angiogenesis, asthma, rheumatoid arthritis, multiple
CC	sclerosis, inflammatory disorders, atherosclerosis, cardiac injury,
CC	infertility, premature aging, AIDS, diabetes complications and stroke.
CC	The molecules may also be utilised during gene therapy procedures and
CC	transgenic animal production. The current sequence is that of the human
CC	PRO protein of the invention.
XX	
SO	Sequence 314 AA;

QY 241 PLACNKGGLWYQIGVWSGVGCGRPNRPVYTNISHHFEWIKLMAQSGMSQDPSPWLL 300
Db 241 PLACNKGGLWYQIGVWSGVGCGRPNRPVYTNISHHFEWIKLMAQSGMSQDPSPWLL 300
QY 301 FFPLLWALPLGVPV 314
Db 301 FFPLLWALPLGVPV 314
RESULT 9
AAU02223
ID AAU02223 standard; protein; 314 AA.
XX
AC AAU02223;
XX
DT 29-AUG-2001 (first entry)
XX
DE Human extracellular serine protease TADG-16.
XX
KW Human; extracellular serine protease; tumour antigen derived gene-16;
KW TADG-16; ovarian carcinoma; breast cancer; lung cancer; colon cancer;
KW prostate cancer; HLA type.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Peptide 1..17
FT Protein 18..314 /label= Signal_secretion_sequence
FT Region 76..83 /label= Secreted_TADG-16_protein
FT /note= "Region containing His residue of conserved
FT catalytic triad found in serine proteases"
FT Region 137..141
FT /note= "Region containing Asp residue of conserved
FT catalytic triad found in serine proteases"
FT Region 236..241
FT /note= "Region containing Ser residue of conserved
FT catalytic triad found in serine proteases"
XX
FN WO200127257-A1.
XX
PD 19-APR-2001.
XX
PF 13-OCT-2000; 2000WO-US028558.
PR 14-OCT-1999; 99US-00418557.
XX (UYAR-) UNIV ARKANSAS.
XX
XX O'Brien TV, Underwood LJ, Shigemasa K;
PI
XX
DR WPI; 2001-273769/28.
DR N-PSDB; AAS01698.
XX
XX New tumor antigen-derived gene-16 protein, useful for diagnosis and
FT treatment of ovarian, breast, lung, colon and prostate cancer.
XX
PS Claim 3; Fig 4; 124pp; English.
XX
CC The present sequence represents a novel human extracellular serine
CC protease, tumour antigen derived gene-16 (TADG-16) protein. TADG-16 is
CC expressed in normal ovaries and testes and in certain ovarian carcinomas.
CC TADG-16 contains the conserved catalytic triad, His-Asp-Ser, and a signal
CC secretion sequence characteristic of the serine protease family. An
CC antisense oligonucleotide having a complementary sequence to the TADG-16
CC nucleic acid is useful for treating various cancers, including ovarian,
CC breast, lung, colon and prostate. The TADG-16 nucleic acid, TADG-16
CC protein and antibodies specific to TADG-16 are useful for the diagnosis
CC of cancer. TADG-16 protein or its fragments are useful for vaccinating an
CC individual against TADG-16. Numerous TADG-16 peptides (AAU02225-AAU02384)
CC are tested for their binding affinity to the 8 haplotypes HLA A0201, HLA
CC A0205, HLA A1, HLA A24, HLA B7, HLA B8, HLA B2702, and HLA B4403

XX Sequence 314 AA;
SQ Query Match 99.7%; Score 1723; DB 4; Length 314;
Best Local Similarity 99.7%; Pred. No. 1.7e-146;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGARGALLALLARAGLRKPEQEARPLSGPCGRRVITSRIYGGEDAEELGRWPWQSLR 60
Db 1 MGARGALLALLARAGLRKPEQEARPLSGPCGRRVITSRIYGGEDAEELGRWPWQSLR 60
QY 61 LWDHSVGVSVLLSHRWALTAACFETYSYDLSDPGMMVQFQLTSMPSFWSLQAYYTRYF 120
Db 61 LWDHSVGVSVLLSHRWALTAACFETYSYDLSDPGMMVQFQLTSMPSFWSLQAYYTRYF 120
QY 121 VSNIIYSPRYLGNSPYDIALVKLSAPVYTKHQICLOASTFEFENRTDCWVTGWGIK 180
Db 121 VSNIIYSPRYLGNSPYDIALVKLSAPVYTKHQICLOASTFEFENRTDCWVTGWGIK 180
QY 181 EDEALPSPHTLQEVQVAIIINNSMCNHLFLKYSYPRKDIKDMVCAGNAQGGKACFGDSGG 240
Db 181 EDEALPSPHTLQEVQVAIIINNSMCNHLFLKYSYPRKDIKDMVCAGNAQGGKACFGDSGG 240
QY 241 PLACNKDGLWYQIGVWSGVGCGRPNRPVYTNISHHFEWIKLMAQSGMSQDPSPWLL 300
Db 241 PLACNKDGLWYQIGVWSGVGCGRPNRPVYTNISHHFEWIKLMAQSGMSQDPSPWLL 300
QY 301 FFPLLWALPLGVPV 314
Db 301 FFPLLWALPLGVPV 314
RESULT 10
AAE17010
ID AAE17010 standard; protein; 314 AA.
XX
AC AAE17010;
XX
DT 18-APR-2002 (first entry)
XX
DE Human eosinophil serine protease-1 (esp-1) like enzyme #2.
XX
KW Human; eosinophil serine protease-1; esp-1; enzyme; antiinflammatory;
KW antiallergic; osteopathic; cystostatic; dermatological;
KW asthma; airway allergy; chronic obstructive pulmonary disease; COPD;
XX osteoporosis; dermatitis; Paget's disease; therapy.
OS Homo sapiens.
XX
XX WO200198503-A2.
XX
XX 27-DEC-2001.
XX
XX 20-JUN-2001; 2001WO-EP006936.
XX
XX 21-JUN-2000; 2000US-0212844P.
PR 31-OCT-2000; 2000US-0244171P.
PR 30-MAR-2001; 2001US-0279766P.
XX
XX (FARB) BAYER AG.
XX
XX Xiao Y;
XX
XX WPI; 2002-122283/16.
XX
XX Novel purified human eosinophil serine protease 1-like enzyme, useful for
FT identifying modulators of enzyme activity for treating Paget's disease,
FT osteoporosis, airway allergy, asthma.
XX
PS Disclosure; Fig 4; 131pp; English.
XX
CC The invention relates to a purified human eosinophil serine protease-1
CC (esp-1) like enzyme. Esp-1 like enzyme is useful in in-vitro or in-vivo

CC assays to identify test compounds with potential therapeutic or
CC diagnostic value. Esp-1 like enzyme modulator is useful for treating esp-
CC like enzyme dysfunction related diseases condition such as asthma, airway
CC allergy, chronic obstructive pulmonary disease (COPD) or osteoporosis.
CC Esp-1 like enzyme is also useful in diagnostic assays for detecting
CC diseases and abnormalities or susceptibility to diseases related to
CC presence of mutations in the nucleic acid sequences which encode the
CC enzyme. Pharmaceutical composition comprising esp-1 like enzyme is useful
CC for treating dermatitis, Paget's disease, and preventing degradation of
CC bone implants particularly dental implants. The present sequence is human
CC esp-1 like enzyme
XX
SQ Sequence 314 AA;

Query Match 99.7%; Score 1723; DB 5; Length 314;
Best Local Similarity 99.7%; Pred. No. 1.7e-146;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MGARGALLALLARAGLRKPESQEAAPLSGPCGRRVITSRIVGGEAELGRWPWQGSRLR 60
Db 1 MGARGALLALLARAGLRKPESQEAAPLSGPCGRRVITSRIVGGEAELGRWPWQGSRLR 60
Qy 61 LWDSHVCGVSLLSHRWALTAHCFETYSYDLSDPGMMVQFGLTSMPSFWSLQAYYTRYF 120
Db 61 LWDSHVCGVSLLSHRWALTAHCFETYSYDLSDPGMMVQFGLTSMPSFWSLQAYYTRYF 120
Qy 121 VSNILSPRYLGNSPYDIALVKLSAPVYTKHIQPICLQASTFEFENRTDCWVTGWGYIK 180
Db 121 VSNILSPRYLGNSPYDIALVKLSAPVYTKHIQPICLQASTFEFENRTDCWVTGWGYIK 180
Qy 181 EDEALPSHTLQEVQVAIIINSMCNHILFLKYSPFKDIFGDMVCAGNAQGGKACFGDSGG 240
Db 181 EDEALPSHTLQEVQVAIIINSMCNHILFLKYSPFKDIFGDMVCAGNAQGGKACFGDSGG 240
Qy 241 PLACNKDGLVQIGVSWGVGCGRPNGVYTNISHHFEMIQKMAQSGMSQDPSPWPLL 300
Db 241 PLACNKGLVYQIGVSWGVGCGRPNGVYTNISHHFEMIQKMAQSGMSQDPSPWPLL 300
Qy 301 FFPLLWALPLIGPV 314
Db 301 FFPLLWALPLIGPV 314

RESULT 11

ABU71634
ID ABU71634 standard; protein; 314 AA.
AC ABU71634;
XX
XX
DT 16-JUN-2003 (first entry)
XX
DE Human PRO polypeptide #45.
XX
KW Human; PRO; secreted polypeptide; transmembrane polypeptide;
KW pathological disorder; cardiac insufficiency disorder; protein secretion;
KW pancreas; diabetes; gastrointestinal mucosa; mucosal lesion; psoriasis;
KW skin disease; keratinocyte differentiation; epithelial cancer; tumour;
KW lung squamous cell carcinoma; epidermoid carcinoma; vulva; glioma;
KW cytostatic; cardiac; endocrine; antidiabetic; gastrointestinal;
KW antitumor; dermatological; vulvular.
XX
OS Homo sapiens.
XX
PN US2002146709-A1.
XX
PD 10-OCT-2002.
XX
XX 18-JUL-2001; 2001US-00909088.
XX
XX 17-SEP-1997; 97US-0059113P.
XX 17-SEP-1997; 97US-0059115P.
XX 17-SEP-1997; 97US-0059117P.
XX 17-SEP-1997; 97US-0059119P.

PR 17-SEP-1997; 97US-0059121P.
PR 17-SEP-1997; 97US-0059122P.
PR 17-SEP-1997; 97US-0059184P.
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 18-SEP-1997; 97US-0062125P.
PR 17-OCT-1997; 97US-0062285P.
PR 17-OCT-1997; 97US-0062287P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0062814P.
PR 24-OCT-1997; 97US-0062816P.
PR 24-OCT-1997; 97US-0063045P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 24-OCT-1997; 97US-0063127P.
PR 24-OCT-1997; 97US-0063128P.
PR 27-OCT-1997; 97US-0063327P.
PR 27-OCT-1997; 97US-0063329P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063542P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063549P.
PR 28-OCT-1997; 97US-0063550P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063435P.
PR 29-OCT-1997; 97US-0063704P.
PR 29-OCT-1997; 97US-0063732P.
PR 29-OCT-1997; 97US-0063734P.
PR 29-OCT-1997; 97US-0063735P.
PR 29-OCT-1997; 97US-0063738P.
PR 31-OCT-1997; 97US-0064215P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 03-NOV-1997; 97US-0064248P.
PR 07-NOV-1997; 97US-0064809P.
PR 12-NOV-1997; 97US-0065186P.
PR 17-NOV-1997; 97US-0065846P.
PR 18-NOV-1997; 97US-0065693P.
PR 21-NOV-1997; 97US-0066120P.
PR 21-NOV-1997; 97US-0066364P.
PR 24-NOV-1997; 97US-0066453P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066511P.
PR 24-NOV-1997; 97US-0066770P.
PR 24-NOV-1997; 97US-0066772P.
PR 10-SEP-1998; 98WO-US018824.
PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 01-DEC-1998; 98WO-US025108.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 05-JAN-2000; 2000WO-US000219.
PR 11-FEB-2000; 2000WO-US003565.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 30-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.

PR 24-AUG-2000; 2000WO-US023328.
XX 18-SEP-2000; 2000US-00665350.
PA (GETH) GENENTECH INC.
XX Ashkenazi A, Botstein D, Deanovoyers L, Eaton DL, Ferrara N;
PI Filvaroff E, Fong S, Gao W, Garber H, Gerritsen ME, Goddard A;
PI Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
PI Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PI Williams PM, Wood WI;
XX WPI; 2003-328338/31.
DR N-PSDB; ACA59107.
XX
XX Isolated nucleic acid useful for e.g., treating pathological disorders
PT encodes a secreted or transmembrane protein.
XX
XX Claim 12; Fig 92; 473pp; English.
XX
XX The invention relates to human PRO polypeptides (secreted or
CC transmembrane polypeptides) and the polynucleotides encoding them. The
CC PRO polypeptides and polynucleotides can be used in treating pathological
CC disorders and tumours, in therapeutic treatment of cardiac insufficiency
CC disorders and in therapeutic treatment of disorders involving protein
CC secretion by the pancreas, including diabetes. They can also be used in
CC treating disorders associated with the preservation and maintenance of
CC gastrointestinal mucosa and the repair of acute and chronic mucosal
CC lesions, and skin diseases associated with abnormal keratinocyte
CC differentiation (e.g., psoriasis, epithelial cancers such as lung
CC squamous cell carcinoma, epidermoid carcinoma of the vulva and gliomas).
CC The sequences can be used as molecular markers for protein
CC electrophoresis purposes and can be utilised in protein-protein binding.
CC assays, biochemical screening assays, immunoassays and cell-based assays.
CC This sequence represents a human PRO polypeptide of the invention
XX
SQ Sequence 314 AA;

Query Match 99.7%; Score 1723; DB 6; Length 314;
Best Local Similarity 99.7%; Pred. No. 1.7e-146;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGARGALLALLARAGLRKPESEAPLSPGCGRRVITSRVGGEDAEILGRWPQGSRLR 60
Db 1 MGARGALLALLARAGLRKPESEAPLSPGCGRRVITSRVGGEDAEILGRWPQGSRLR 60

Qy 61 LWDSHVCGVSLSHRWALTAACHCFETYSDLSDPGMMVQFGQLTSMPSFSLQAYTYRPF 120
Db 61 LWDSHVCGVSLSHRWALTAACHCFETYSDLSDPGMMVQFGQLTSMPSFSLQAYTYRPF 120

Qy 121 VSNITLSPRYLGNSPYDIALVKLSAPVYTKHIQICLQASTFFENRTDCWVTGWYIK 180
Db 121 VSNITLSPRYLGNSPYDIALVKLSAPVYTKHIQICLQASTFFENRTDCWVTGWYIK 180

Qy 181 EDEALPSHTLOEQVQVAILNNMCNHLFLKYSFRKIDFGDMVVCAGNAGQGGKACFGISGG 240
Db 181 EDEALPSHTLOEQVQVAILNNMCNHLFLKYSFRKIDFGDMVVCAGNAGQGGKACFGISGG 240

Qy 241 PLACNKGDLWQIGVWSGVGCGRPNGVYTNISHHFEWIKLMAQSGMSQDPSPMLL 300
Db 241 PLACNKGDLWQIGVWSGVGCGRPNGVYTNISHHFEWIKLMAQSGMSQDPSPMLL 300

Qy 301 FFPLLWALPLLGPV 314
Db 301 FFPLLWALPLLGPV 314

RESULT 12
ID ABU71489
XX ABU71489 standard; protein; 314 AA.
AC ABU71489;
XX
DT 10-JUN-2003 (first entry)

XX Human PRO polypeptide #45.
DE
XX
XX Human; secreted and transmembrane protein; PRO polypeptide; cancer;
KW Alzheimer's disease; ischaemia; cytostatic; nootropic; vasotropic;
KW neuroprotective.
XX
OS Homo sapiens.
XX
PN US2002192659-A1.
XX
XX 19-DEC-2002.
PD
XX
XX 10-JUL-2001; 2001US-00902853.
PF
XX 17-SEP-1997; 97US-0059113P.
PR 17-SEP-1997; 97US-0059115P.
PR 17-SEP-1997; 97US-0059117P.
PR 17-SEP-1997; 97US-0059119P.
PR 17-SEP-1997; 97US-0059121P.
PR 17-SEP-1997; 97US-0059122P.
PR 17-SEP-1997; 97US-0059184P.
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 15-OCT-1997; 97US-0062125P.
PR 17-OCT-1997; 97US-0062285P.
PR 17-OCT-1997; 97US-0062287P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0062814P.
PR 24-OCT-1997; 97US-0062816P.
PR 24-OCT-1997; 97US-0063045P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 24-OCT-1997; 97US-0063127P.
PR 24-OCT-1997; 97US-0063128P.
PR 27-OCT-1997; 97US-0063327P.
PR 27-OCT-1997; 97US-0063329P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063542P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063549P.
PR 28-OCT-1997; 97US-0063550P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063435P.
PR 29-OCT-1997; 97US-0063704P.
PR 29-OCT-1997; 97US-0063732P.
PR 29-OCT-1997; 97US-0063734P.
PR 29-OCT-1997; 97US-0063735P.
PR 29-OCT-1997; 97US-0063738P.
PR 29-OCT-1997; 97US-0064215P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 03-NOV-1997; 97US-0064248P.
PR 07-NOV-1997; 97US-0064809P.
PR 12-NOV-1997; 97US-0065186P.
PR 17-NOV-1997; 97US-0065846P.
PR 18-NOV-1997; 97US-0065693P.
PR 21-NOV-1997; 97US-0066120P.
PR 21-NOV-1997; 97US-0066364P.
PR 24-NOV-1997; 97US-0066453P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066511P.
PR 24-NOV-1997; 97US-0066770P.
PR 24-NOV-1997; 97US-0066772P.
PR 10-SEP-1998; 98WO-US018824.
PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 01-DEC-1998; 98WO-US025108.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.

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PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99WO-US028564.
PR 16-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 05-JAN-2000; 2000WO-US000219.
PR 11-FEB-2000; 2000WO-US003565.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 30-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00665350.
XX
XX (GETH ) GENENTECH INC.
FA
XX Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
PI Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
PI Mather JP, Pan J, Paoni NF, Roy NA, Stewart TA, Tumas D;
PI Williams PM, Wood WI;
XX
XX WPI; 2003-361832/34.
DR N-PSDB; ACA58504.
XX
XX New isolated nucleic acid encoding a PRO polypeptide, e.g. PRO245 or
PT PRO1868, useful in molecular biology, chromosome and gene mapping, in
FT generating antisense RNA and DNA, and in gene therapy.
XX
XX Claim 12; Fig 92; 474pp; English.
XX
XX The present invention relates to the isolation of novel human secreted
CC and transmembrane proteins (PRO polypeptides), and the polynucleotide
CC sequences encoding them. The polynucleotide sequences are useful in
CC molecular biology, as hybridisation probes, in chromosome and gene
CC mapping, in generating antisense RNA and DNA, and in gene therapy. The
CC polynucleotide sequences may also be used in preparing PRO polypeptides
CC by recombinant techniques, and in generating either transgenic animals or
CC knock-out animals which, in turn, are useful in the development and
CC screening of therapeutically useful reagents. The PRO polypeptides or
CC their antibodies are useful in preparing a medicament for treating a
CC condition responsive to the polypeptide or antibody, such as cancer,
CC Alzheimer's disease or ischaemia, and in various diagnostic assays.
CC ABU71445-ABU71505 represent human PRO polypeptides of the invention
XX
XX Sequence 314 AA;
SQ
Query Match 99.7%; Score 1723; DB 6; Length 314;
Best Local Similarity 99.7%; Pred. No. 1.7e-146;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MGARGALLALLARAGLRKPESQEAAPLPGCGRRVITSRVGGEDAEILGRWPGQSLR 60
Db 1 MGARGALLALLARAGLRKPESQEAAPLPGCGRRVITSRVGGEDAEILGRWPGQSLR 60
Qy 61 LWDSHVCGVSLSHRWALTAAHCFTETYSDDLSPSGMWVQFGLTSMPSFWSLQAYTRYF 120
Db 61 LWDSHVCGVSLSHRWALTAAHCFTETYSDDLSPSGMWVQFGLTSMPSFWSLQAYTRYF 120
Qy 121 VSNLYLSPRYLGNFPYDIALVKLSAPVYTKHQIPICLQASTFEFENRTDCWVTGWGYIK 180
Db 121 VSNLYLSPRYLGNFPYDIALVKLSAPVYTKHQIPICLQASTFEFENRTDCWVTGWGYIK 180
Qy 181 EDEALPSHTLQEVQVAIINNMCNHLFLKYSFRKDI FGDVMVCAGNAQGGKACFGDSGG 240
..
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Db 181 EDEALPSHTLQEVQVAIINNMCNHLFLKYSFRKDI FGDVMVCAGNAQGGKACFGDSGG 240
Qy 241 PLACNKDGLWYQIGVSWGVCGRPNRPGVYTNISHHFEWIOKLMAQSGMSQDPSPWPLL 300
Db 241 PLACNKDGLWYQIGVSWGVCGRPNRPGVYTNISHHFEWIOKLMAQSGMSQDPSPWPLL 300
Qy 301 FPELLWALPLLGPV 314
Db 301 FPELLWALPLLGPV 314
RESULT 13
ABU71935
ID ABU71935 standard; protein; 314 AA.
XX
XX AC ABU71935;
XX
XX 12-JUN-2003 (first entry)
XX
XX Human secreted/transmembrane protein PRO303.
XX
XX Human; secreted protein; transmembrane protein; PRO; gene therapy;
XX chromosome identification; chromosome marker.
XX
XX Homo sapiens.
XX
XX US2003003530-A1.
XX
XX 02-JAN-2003.
XX
XX 11-JUL-2001; 2001US-00904011.
XX
XX 17-SEP-1997; 97US-0059113P.
XX 17-SEP-1997; 97US-0059115P.
XX 17-SEP-1997; 97US-0059117P.
XX 17-SEP-1997; 97US-0059119P.
XX 17-SEP-1997; 97US-0059121P.
XX 17-SEP-1997; 97US-0059122P.
XX 17-SEP-1997; 97US-0059184P.
XX 18-SEP-1997; 97US-0059263P.
XX 18-SEP-1997; 97US-0059266P.
XX 15-OCT-1997; 97US-0062125P.
XX 17-OCT-1997; 97US-0062285P.
XX 17-OCT-1997; 97US-0062287P.
XX 21-OCT-1997; 97US-0063486P.
XX 24-OCT-1997; 97US-0062814P.
XX 24-OCT-1997; 97US-0062816P.
XX 24-OCT-1997; 97US-0063045P.
XX 24-OCT-1997; 97US-0063120P.
XX 24-OCT-1997; 97US-0063121P.
XX 24-OCT-1997; 97US-0063127P.
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XX 27-OCT-1997; 97US-0063327P.
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XX 28-OCT-1997; 97US-0063549P.
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XX 28-OCT-1997; 97US-0063564P.
XX 29-OCT-1997; 97US-0063435P.
XX 29-OCT-1997; 97US-0063704P.
XX 29-OCT-1997; 97US-0063732P.
XX 29-OCT-1997; 97US-0063734P.
XX 29-OCT-1997; 97US-0063735P.
XX 29-OCT-1997; 97US-0063738P.
XX 29-OCT-1997; 97US-0064215P.
XX 31-OCT-1997; 97US-0063870P.
XX 31-OCT-1997; 97US-0064103P.
XX 03-NOV-1997; 97US-0064248P.
XX 07-NOV-1997; 97US-0064809P.
XX 12-NOV-1997; 97US-0065186P.
XX 17-NOV-1997; 97US-0065846P.
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18-NOV-1997; 97US-0065693P.
21-NOV-1997; 97US-0066120P.
21-NOV-1997; 97US-0066364P.
24-NOV-1997; 97US-0066453P.
24-NOV-1997; 97US-0066466P.
24-NOV-1997; 97US-0066511P.
24-NOV-1997; 97US-0066770P.
24-NOV-1997; 97US-0066772P.
10-SEP-1998; 98WO-US01884A.
14-SEP-1998; 98WO-US019177.
16-SEP-1998; 98WO-US019330.
17-SEP-1998; 98WO-US019437.
01-DEC-1998; 98WO-US025108.
08-SEP-1998; 98WO-US020594.
13-SEP-1998; 98WO-US020944.
15-SEP-1998; 98WO-US021090.
15-SEP-1998; 98WO-US021547.
05-OCT-1999; 99WO-US023089.
29-NOV-1999; 99WO-US028214.
30-NOV-1999; 99WO-US028313.
01-DEC-1999; 99WO-US028301.
02-DEC-1999; 99WO-US028564.
02-DEC-1999; 99WO-US028565.
16-DEC-1999; 99WO-US030095.
20-DEC-1999; 99WO-US030911.
20-DEC-1999; 99WO-US030999.
05-JAN-2000; 2000WO-US000219.
11-FEB-2000; 2000WO-US003565.
22-FEB-2000; 2000WO-US004414.
24-FEB-2000; 2000WO-US005004.
02-MAR-2000; 2000WO-US005841.
20-MAR-2000; 2000WO-US007377.
30-MAR-2000; 2000WO-US008439.
22-MAY-2000; 2000WO-US014042.
02-JUN-2000; 2000WO-US015264.
28-JUL-2000; 2000WO-US020710.
24-AUG-2000; 2000WO-US023328.
18-SEP-2000; 2000US-00665350.
(GETH) GENENTECH INC.
Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen WE, Goddard A;
Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
Williams PW, Wood WI,
WPI; 2003-329602/31.
N-PSDB; ACA60211.
New transmembrane polypeptides and nucleic acids encoding the
polypeptides, useful in gene therapy, in chromosome identification, as
chromosome markers, in generating probes and in tissue typing.
Claim 12; Fig 92; 484pp; English.
The invention relates to an isolated nucleic acid with at least 80%
nucleic acid sequence identity to a nucleotide sequence encoding one of
61 secreted/transmembrane polypeptides, or PRO polypeptides or encoding a
PRO protein extracellular domain. Also included are a vector comprising
the PRO nucleic acid, a host cell comprising the vector, producing a PRO
polypeptide (by culturing the host cell for the expression of the PRO
polypeptide, and recovering the PRO polypeptide from the cell culture),
an isolated PRO polypeptide (having at least 80% sequence identity to:
(a) an amino acid sequence selected from the 61 PRO proteins; (b) an amino
acid sequence encoded by a nucleic acid molecule deposited with an ATCC
number (detailed in the specification); or (c) an extracellular domain of
a PRO polypeptide or to a PRO polypeptide lacking its associated signal
peptide), a chimeric molecule comprising a PRO polypeptide of fused to a
heterologous amino acid sequence, an anti-PRO antibody, detecting a
PRO245 or PRO1868 in a sample suspected of containing the polypeptide,
linking a bioactive molecule to a cell expressing a PRO245 or PRO1868 and
modulating at least one biological activity of a cell expressing a PRO245

or PRO1868. Nucleic acids which encode PRO can be used to generate either
transgenic animals or knock-out animals which may be used in the
development and screening of therapeutically useful reagents. The nucleic
acids may also be used in gene therapy, in chromosome identification, as
chromosome markers, or in generating probes. The PRO polypeptides are
useful as molecular markers for protein electrophoresis, and the isolated
nucleic acids may be used for recombinantly expressing those markers. The
PRO polypeptides and nucleic acids may also be used in tissue typing.
Anti-PRO antibodies are useful in diagnostic assays for PRO, and in
affinity purification of PRO from recombinant cell culture or natural
sources. The present sequence represents a PRO protein
Sequence 314 AA;
Query Match 99.7%; Score 1723; DB 6; Length 314;
Best Local Similarity 99.7%; Pred. No. 1.7e-146;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGARGALLALLARAGLRKPESQEAAPLSGPCGRRVITSRIVGDEAELGRWPQGSRLR 60
DB 1 MGARGALLALLARAGLRKPESQEAAPLSGPCGRRVITSRIVGDEAELGRWPQGSRLR 60
QY 61 LWDSHVCGVSLLSHRWALTAHCFETYSDLSDPGSMVQFGLTSMPSFWSLQAYTRYF 120
DB 61 LWDSHVCGVSLLSHRWALTAHCFETYSDLSDPGSMVQFGLTSMPSFWSLQAYTRYF 120
QY 121 VSNITLSPRYLGNSPYDIALVKLSAPVYTKHQIPICLQASTPFENRTDCWVTGMYIK 180
DB 121 VSNITLSPRYLGNSPYDIALVKLSAPVYTKHQIPICLQASTPFENRTDCWVTGMYIK 180
QY 181 EDEALPSPHTLOEVQVVAIINNSMCNHLFLKYSPEKDFGDMVCAGNAQGGKACFGDSGG 240
DB 181 EDEALPSPHTLOEVQVVAIINNSMCNHLFLKYSPEKDFGDMVCAGNAQGGKACFGDSGG 240
QY 241 PLACNKDGLWYQIGVSWGVCGRPNRPVYVYTNLSHHFEWIKLMAQSGMSQPPSPWLL 300
DB 241 PLACNKDGLWYQIGVSWGVCGRPNRPVYVYTNLSHHFEWIKLMAQSGMSQPPSPWLL 300
QY 301 FFLMLWALPLIGPV 314
DB 301 FFLMLWALPLIGPV 314
RESULT 14
ABO01818
ID ABO01818 standard; protein; 314 AA.
XX ABO01818;
XX ABO01818;
DT 07-AUG-2003 (first entry)
DE Novel human secreted and transmembrane protein PRO303.
KW Human; secreted and transmembrane protein; PRO; pharmaceutical;
diagnostic; biosensor; bioreactor; Parkinson's disease;
Alzheimer's disease; inflammation; nephritis; wound healing;
nerve repair; collateral blood vessel formation; cancer;
colorectal cancer; haemorrhage; rheumatoid arthritis; diabetes;
cirrhosis; fibrosis; restenosis; dermal fibrotic condition; keloid;
scarring; ischaemia; stroke; hypertension; heart attack; atherosclerosis;
infertility; gene therapy.
OS Homo sapiens.
PN US2002197671-A1.
XX 26-DEC-2002.
PD 17-JUL-2001; 2001US-00907824.
PF 17-SEP-1997; 97US-0059113P.
PR 17-SEP-1997; 97US-0059115P.
PR 17-SEP-1997; 97US-0059117P.

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PR 17-SEP-1997; 97US-0059119P.
PR 17-SEP-1997; 97US-0059121P.
PR 17-SEP-1997; 97US-0059122P.
PR 17-SEP-1997; 97US-0059184P.
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 15-OCT-1997; 97US-0062125P.
PR 17-OCT-1997; 97US-0062285P.
PR 17-OCT-1997; 97US-0062287P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0062814P.
PR 24-OCT-1997; 97US-0062816P.
PR 24-OCT-1997; 97US-0063045P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 24-OCT-1997; 97US-0063137P.
PR 24-OCT-1997; 97US-0063138P.
PR 27-OCT-1997; 97US-0063327P.
PR 27-OCT-1997; 97US-0063329P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063542P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063549P.
PR 28-OCT-1997; 97US-0063550P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063435P.
PR 29-OCT-1997; 97US-0063704P.
PR 29-OCT-1997; 97US-0063732P.
PR 29-OCT-1997; 97US-0063734P.
PR 29-OCT-1997; 97US-0063735P.
PR 29-OCT-1997; 97US-0063738P.
PR 29-OCT-1997; 97US-0064215P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 03-NOV-1997; 97US-0064248P.
PR 07-NOV-1997; 97US-0064809P.
PR 12-NOV-1997; 97US-0065186P.
PR 17-NOV-1997; 97US-0065846P.
PR 18-NOV-1997; 97US-0065693P.
PR 21-NOV-1997; 97US-0066120P.
PR 21-NOV-1997; 97US-0066384P.
PR 24-NOV-1997; 97US-0066453P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066511P.
PR 24-NOV-1997; 97US-0066770P.
PR 24-NOV-1997; 97US-0066772P.
PR 10-SEP-1998; 98WO-US018824.
PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 01-DEC-1998; 98WO-US025108.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 30-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 05-JAN-2000; 2000WO-US000219.
PR 11-FEB-2000; 2000WO-US003565.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 02-JUN-2000; 2000WO-US015264.

PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00665350.
XX (GETH ) GENENTECH INC.
PA Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
PI Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
PI Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
PI Williams PM, Wood WI;
XX WPI; 2003-370793/35.
DR N-PSDB; ACD07611.
XX New genes and secreted and transmembrane polypeptides (e.g. PRO245 or
PT PRO335), useful for treating or diagnosing e.g. Alzheimer's disease,
PT cancers, hemorrhage, rheumatoid arthritis, diabetes, cirrhosis, ischemia
PT or strokes.
XX Claim 12; Fig 92; 482pp; English.
XX The invention describes a new isolated nucleic acid molecule comprising
CC the full length coding sequence of the DNA deposited with the American
CC Type Culture Collection (e.g. ATCC Deposit No. 209258), or a sequence
CC with at least 80% identity to a DNA encoding a PRO polypeptide comprising
CC any of 61 sequences having 164-1119 amino acids fully defined in the
CC specification. The PRO polypeptides or polynucleotides are useful as
CC pharmaceuticals, diagnostics, biosensors or bioreactors. These are
CC particularly useful for detecting or treating e.g. Parkinson's disease,
CC Alzheimer's disease, inflammations, nephritis, wound healing, nerve
CC repair, collateral blood vessel formation, cancers (e.g. colorectal
CC cancer), haemorrhage (or reduce risk for haemorrhage), rheumatoid
CC arthritis, diabetes, cirrhosis of the liver, fibrosis of the lungs,
CC restenosis, dermal fibrotic conditions (e.g. keloids or scarring), or
CC ischaemia, strokes, hypertension, heart attacks, atherosclerosis, or
CC infertility in mammals (e.g. humans, dogs, cats, cattle, horses, sheep,
CC pigs, goats, or rabbits) The PRO polypeptides are useful as targets for
CC therapeutic intervention in these diseases, and diagnostic determination
CC of the presence of these diseases. The PRO polypeptides are also useful
CC as molecular weight markers, or for chromosome identification. The PRO
CC genes are useful as hybridisation probes, or for screening libraries of
CC human cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene
CC therapy, particularly for replacing a defective gene. This is the amino
CC acid sequence of a novel human secreted and transmembrane PRO polypeptide
XX Sequence 314 AA;
SQ
Query Match 99.7%; Score 1723; DB 6; Length 314;
Best Local Similarity 99.7%; Pred. No. 1.7e-146;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGARGALLALLARAGLRKPESQEAAPLSGPGRRVITSRIVGGDAELGRFPWQSLR 60
DB 1 MGARGALLALLARAGLRKPESQEAAPLSGPGRRVITSRIVGGDAELGRFPWQSLR 60
QY 61 LWDSHVCGVSLSHRWALTAHCFETYSDLSDPGMMVQFGLTSPFWSLQAYTRYF 120
DB 61 LWDSHVCGVSLSHRWALTAHCFETYSDLSDPGMMVQFGLTSPFWSLQAYTRYF 120
QY 121 VSNILSPRYLGNSPYDIALVKLSAPVYTKHIQPICLQASTFEFFENRDCWVTGWGIK 180
DB 121 VSNILSPRYLGNSPYDIALVKLSAPVYTKHIQPICLQASTFEFFENRDCWVTGWGIK 180
QY 181 EDEALSPHTLQEVQVAIINNSMCHLFLKYSFRKDI FGMVCAAGQAQGGKACFGDSGG 240
DB 181 EDEALSPHTLQEVQVAIINNSMCHLFLKYSFRKDI FGMVCAAGQAQGGKACFGDSGG 240
QY 241 PLACNKDGLWYQIGVYVSWGCGRPNRPGVYTNISHHFEWIOKLMAQSGMSQDPSPWLL 300
DB 241 PLACNKDGLWYQIGVYVSWGCGRPNRPGVYTNISHHFEWIOKLMAQSGMSQDPSPWLL 300
QY 301 FFFLLWALPFLGVPV 314
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Db 301 FFFLLWALPLGPFV 314
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 RESULT 15
 ABUS4391
 ID ABUS4391 standard; protein; 314 AA.
 XX
 AC ABUS4391;
 XX
 DT 10-MAR-2003 (first entry)
 XX
 DE Human secreted/transmembrane protein PRO303.
 XX
 KW Human; PRO; secreted protein; transmembrane protein; enterocolitis;
 KW gastrointestinal ulceration; skin disease;
 KW abnormal keratinocyte differentiation; psoriasis; epithelial cancer;
 KW squamous cell carcinoma; Alzheimer's disease; Parkinson's disease;
 KW amyotrophic lateral sclerosis; inflammatory disease;
 KW rheumatoid arthritis; asthma; multiple sclerosis; organ failure;
 KW atherosclerosis; cardiac injury; infertility; birth defect;
 KW premature aging; AIDS; acquired immunodeficiency syndrome; cancer;
 KW diabetic complication; wound repair.
 OS Homo sapiens.
 XX
 PN US2002132240-A1.
 XX
 PD 19-SEP-2002.
 XX
 PF 18-JUL-2001; 2001US-00909320.
 XX
 PR 17-SEP-1997; 97US-0059113P.
 PR 17-SEP-1997; 97US-0059113P.
 PR 17-SEP-1997; 97US-0059117P.
 PR 17-SEP-1997; 97US-0059117P.
 PR 17-SEP-1997; 97US-0059117P.
 PR 17-SEP-1997; 97US-0059121P.
 PR 17-SEP-1997; 97US-0059122P.
 PR 17-SEP-1997; 97US-0059184P.
 PR 18-SEP-1997; 97US-0059263P.
 PR 18-SEP-1997; 97US-0059266P.
 PR 15-OCT-1997; 97US-0062125P.
 PR 17-OCT-1997; 97US-0062285P.
 PR 17-OCT-1997; 97US-0063127P.
 PR 21-OCT-1997; 97US-0063128P.
 PR 24-OCT-1997; 97US-00632814P.
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 PR 14-SEP-1998; 98WO-US018824.
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 PR 16-SEP-1998; 98WO-US019330.
 PR 17-SEP-1998; 98WO-US019437.
 PR 01-DEC-1998; 98WO-US025108.
 PR 08-SEP-1999; 98WO-US020594.
 PR 13-SEP-1999; 99WO-US020944.
 PR 15-SEP-1999; 99WO-US021090.
 PR 15-SEP-1999; 99WO-US021547.
 PR 05-OCT-1999; 99WO-US023089.
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 PR 30-NOV-1999; 99WO-US028313.
 PR 01-DEC-1999; 99WO-US028301.
 PR 02-DEC-1999; 99WO-US028564.
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 PR 20-DEC-1999; 99WO-US030911.
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 PR 06-JAN-2000; 2000WO-US000219.
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 PR 24-FEB-2000; 2000WO-US005004.
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 PR 22-MAY-2000; 2000WO-US008439.
 PR 30-MAY-2000; 2000WO-US014042.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 18-SEP-2000; 2000US-00665350.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Ashkenazi A, Botstein D, Deenoyers L, Eaton DL, Ferrara N;
 PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
 PI Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
 PI Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
 PI Williams PM, Wood WI;
 XX
 DR WPI; 2003-147434/14.
 DR N-FSDB; AEX71659.
 XX
 PT New PRO polypeptides and nucleic acid molecules, useful in diagnosing or
 PT treating inflammatory diseases, organ failure, atherosclerosis, cardiac
 PT injury, infertility, cancer, AIDS, Alzheimer's disease or Parkinson's
 PT disease.
 XX
 PS Claim 12; Fig 92; 473pp; English.
 XX
 CC The invention relates to an isolated PRO polypeptide having at least 80%
 CC amino acid sequence identity to: (a) any one of 61 fully defined amino
 CC acid sequences given in the specification (appearing as ABUS4347-
 CC ABUS4407); (b) an amino acid sequence encoded by the nucleotide sequence
 CC deposited under American Type Culture Collection (accession numbers
 CC listed in the specification); (c) any one of the PRO sequences which
 CC lacks its associated signal peptide; (d) an extracellular domain of the
 CC PRO polypeptide with its associated signal peptide; or (e) an
 CC extracellular domain of the PRO polypeptide which lacks its associated
 CC signal peptide. Also include are the nucleic acids encoding the PRO
 CC polypeptides, vectors, host cells and anti-PRO antibodies. The PRO
 CC polypeptides and nucleic acids are useful in diagnosing or treating
 CC enterocolitis, gastrointestinal ulceration, skin diseases associated with
 CC abnormal keratinocyte differentiation, e.g. psoriasis or epithelial
 CC cancers such as squamous cell carcinoma, Alzheimer's disease, Parkinson's
 CC disease, amyotrophic lateral sclerosis, inflammatory diseases, e.g.

CC rheumatoid arthritis, asthma or multiple sclerosis, organ failure,
CC atherosclerosis, cardiac injury, infertility, birth defects, premature
CC aging, AIDS, cancer, diabetic complications, or mutations in general. The
CC polypeptides are also useful for wound repair and associated therapies
CC concerned with re-growth of tissue. The nucleotide sequences may be used
CC as hybridisation probes in chromosome and gene mapping, or in generating
CC antisense RNA and DNA. PRO nucleic acids are also useful in preparing PRO
CC polypeptides, in assays to identify other proteins or molecules involved
CC in binding reaction, to generate transgenic animals or knockout animals,
CC which in turn are useful in the development and screening of
CC therapeutically useful reagents, for chromosome identification, and
CC tissue typing. The PRO polypeptides and nucleic acid molecules are also
CC useful in gene therapy, and as molecular weight markers for protein
CC electrophoresis purposes. The anti-PRO antibodies may be used in
CC diagnostic assays for PRO, or for the affinity purification of PRO from
CC recombinant cell culture or natural sources. The present sequence
CC represents a PRO polypeptide
XX
SQ Sequence 314 AA;

Query Match 99.7%; Score 1723; DB 6; Length 314;
Best Local Similarity 99.7%; Pred. No. 1.7e-146;
Matches 313; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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Db |||||
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Qy 121 VSNLYLSPRYLGNPYDIALVKLSAPVYTKHIQICLQASTFEFENRTDCWVTGWGIK 180
Db |||||
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Qy 181 EDEALPSPTLQEVQVVAIINNSMCNHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGDSGG 240
Db |||||
181 EDEALPSPTLQEVQVVAIINNSMCNHLFLKYSFRKIDFGDMVCAGNAQGGKDACFGDSGG 240
Qy 241 PLACNKDGLWYQIGVWSGVCGRPNRPVYTNISHHFEWIKLMAQSGMSQDPDSWPLL 300
Db |||||
241 PLACNKDGLWYQIGVWSGVCGRPNRPVYTNISHHFEWIKLMAQSGMSQDPDSWPLL 300
Qy 301 FFPLLWALPLIGPV 314
Db |||||
301 FFPLLWALPLIGPV 314

Search completed: February 27, 2005, 20:22:32
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QY 723 GTGACTCAGGTGGACCCCTTGGCCCTGTAAACAGGATGGAAGTGTGATCAGATGAGGTGCG 782
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DEFINITION CDNA clone CS0DK002YM07 3-PRIME, mRNA sequence.
ACCESSION AL578261
VERSION AL578261.3 GI:46257165
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 932)
Li.W.B., Gruber.C., Jessee.J. and Polayes.D.
Full-length cDNA libraries and normalization
Unpublished (2001)
On Feb 16, 2001 this sequence version replaced gi:31316478.
Contact: Genoscope
Genoscope - Centre National de Sequencage
2 rue Gaston Crenieux, CP 5706 - 91057 EVRY cedex - FRANCE
Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr
1st strand cDNA was primed with a NotI-oligo(dN) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library
was normalized. Library was constructed by Life Technologies, a
division of Invitrogen. This sequence belongs to sequence cluster
8290.f
For more information about this cluster, see
http://www.genoscope.cns.fr/cdna?c=CS0DK002AG04NP1&c=8290.f.
Location/Qualifiers
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FEATURES
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Matches 910; Conservative 5; Mismatches 8; Indels 0; Gaps 0;
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QY 144 TGGGTGAGAGGAGCAGCGCGAACTCGGGCGTTGGCGGTGGCGGAGGAGGCTGGCCCTGTGGG 203
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Db 812 ATTCCACGATATGCGGAGTGAGCTGCTCAGCACAACCGCTGGGCACTCACGGCGCGCACT 753
QY 264 GCTTTGAAACCTATAGTGACCTTAGTGATCCCTCCGGGTGGATGGTCCAGTTGGCCAGC 323
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QY 324 TGACTTCATGCCATCCCTCTCGGAGCTGCGAGGCTACTACCCGTTACTTCGTATCGA 383
Db 692 TRACTTCATGCCATCCCTCTCGGAGCTGCGAGGCTACTACCCGTTACTTCGTATCGA 633
QY 384 ATATCTATCTGAGCCCTCGCTACCTGGGGAATTCACCCCTATGACATTCCTTGGTGAAGC 443
Db 632 ATATCTATCTGAGCCCTCGCTACCTGGGGAATTCACCCCTATGACATTCCTTGGTGAAGC 573
QY 444 TGTCTGACCTGTCACTACACTAAACACATCAGGCCCATCTGTCTCAGGCGCTCCACAT 503
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QY 504 TTGAGTTTGGAGAACCGGACAGACTGCTGGGTGAGTGTGGGTGATCAAGAGGATG 563
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QY 564 AGGCACTGCCATCTTCCCCACACCCCTCAGGAAGTTTCAGGTTCGCCATCATATAACAACTCTA 623
Db 452 AGGCACTGCCATCTTCCCCACACCCCTCAGGAAGTTTCAGGTTCGCCATCATATAACAACTCTA 393
QY 624 TGTGCAACCACTCTTCTCAAGTACAGTTTCCGCAAGGACATCTTTGGAGACATGTTT 683
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QY 804 GTGCGGCAATCGGCGCGGTGTCTACACCAATATCAGCCACCACTTTTGGTGGATCCAGA 863
Db 212 GTGCGGCAATCGGCGCGGTGTCTACACCAATATCAGCCACCACTTTTGGTGGATCCAGA 153
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QY 924 CTCCTTCTCTGGCTCTCCCACTCTCGGCGCGGTGTGAGCTACTCTGAGCCCATGCGAGCC 983
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/notes="1st strand cDNA was primed with a NotI-oligo(dN)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and EcoR V sites of the pCMVSPORT 6 vector. Library was normalized."

Db	32	TGGGGCCACTGCGCAAGCAGCCC	10
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LOCUS	AL555870	884 bp	linear
DEFINITION	AL555870 Homo sapiens HELA CELLS COT 25-NORMALIZED Homo sapiens	EST 30-MAR-2004	
ACCESSION	AL555870	5-PRIME, mRNA sequence.	
VERSION	AL555870.3	GI:45860593	
KEYWORDS	EST.		
SOURCE	Homo sapiens (human)		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
AUTHORS	Li, W.B., Gruber, C., Jessee, J., and Polayes, D.		
TITLE	Full-length cDNA libraries and normalization		
JOURNAL	Unpublished (2001)		
COMMENT	On Feb 15, 2001 this sequence version replaced gi:31277675.		
FEATURES	Genoscope - Centre National de Sequencage		
source	Genoscope - Centre National de Sequencage		
	2 rue Gaston Cremieux, CP 5706 - 91057 EVRY cedex - FRANCE		
	Email: segref@genoscope.cns.fr, Web: www.genoscope.cns.fr		
	1st strand cDNA was primed with a NotI-oligo (dT) primer. Five prime		
	end enriched, double-strand cDNA was digested with Not I and cloned		
	into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library		
	was normalized. Library was constructed by Life Technologies, a		
	division of Invitrogen. This sequence belongs to sequence cluster		
	8290.f		
	For more information about this cluster, see		
	http://www.genoscope.cns.fr/cdna?s=CS0DK002AG04QPI&c=8290.f.		
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ORIGIN			
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Best Local Similarity	99.8%; Pred. No. 7.1e-208;		
Matches	882; Conservative 0; Mismatches 1; Indels 1; Gaps 1;		
QY	3	CGGAGAGAGGCATGGCGCGCGCGCGCGCGCTCTCTCTGCGCGTGTGCTGCTCGG	62
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QY	122	CGGGTCATCAGCTCGCGCATCTGGTGGAGAGAGCGCGAATCGGGCGTGGCCGTGG	181
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QY	182	CAGGGAGAGCTGGCGCTGTGGATTCACGATCGGAGTGCAGGCTGCTCAGCCACGC	241
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with a NotI-oligo(dT) primer. Five prime end enriched,
double-strand cDNA was digested with Not I and cloned into
the Not I and EcoRV sites of the pCMWSPORT 6 vector.
Library was not normalized."

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ORIGIN

Query Match	78.7%	Score	866;	DB	5;	Length	1057;		
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QY	61	GGCTGGACTCAGGAAGCCGGAGTGCAGGAGGGCGCGCGCT-TATCAGGACCATGCGGCC	119						
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954 TGAGCTWACTGAGCCMATGCACTGGGG 981

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DEFINITION	BX454526	Homo sapiens	PLACENTA	Homo sapiens	cDNA clone CS0DE010YP05
3-PRIME, mRNA sequence.	BX454526				
ACCESSION	BX454526.1	GI:31019139			
VERSION	EST.				
KEYWORDS					
SOURCE	Homo sapiens (human)				
ORGANISM	Homo sapiens				
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
REFERENCE	Li, W.B., Gruber, C., Jessee, J. and Polayes, D.				
AUTHORS	1 (bases 1 to 898)				
TITLE	Full-length cDNA libraries and normalization				
JOURNAL	Unpublished (2001)				
COMMENT	Contact: Genoscope				
	Genoscope - Centre National de Sequencage				
	2 rue Gaston Cremieux, CP 5706 - 91057 EVRY cedex - FRANCE				
	Email: cref@genoscope.cns.fr , Web : www.genoscope.cns.fr				
	1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime				
	into enriched, double-strand cDNA was digested with Not I and cloned				
	into the Not I and EcoRV sites of the pCMVSPORT 6 vector. Library				
	was not normalized. Library was constructed by Life Technologies, a				
	division of Invitrogen.				
	This sequence belongs to sequence cluster 8290.f				
	For more information about this cluster, see				
	http://www.genoscope.cns.fr/cdna?c=CS0BAK026CB01NM1&c=8290.f .				

FEATURES
source

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with a NotI-oligo(dT) primer. Five prime end enriched, into
double-strand cDNA was digested with Not I and cloned, into
the Not I and EcoRV sites of the pCMVSPORT 6 vector.
Library was not normalized."

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ORIGIN

Query Match	71.0%;	Score	780.6;	DB	5;	Length	998;
Best Local Similarity	96.5%;	Pred. No.	2.8e-185;				
Matches	862;	Conservative	0;	Mismatches	24;	Indels	7;
							Gaps
							6;
QY	184	GGGGAGCCTGTGGCTCTGTGGATT	- -CCACAGCTATGCGGAGTGA	-GCCTGCTCAGGCACCG	240		
Db	893	GGNAACCCGGGCGCTTTGGGATTTCC	CCCCGGTATGGAAGTGAGGCTTGCTCAGGCCCCG	834			
QY	241	CT-GGGCACTACGGGG-GGCAC	CTGCTTTGAAA	CCCTATAGTGACCTTATAGTATGCCCTCC	298		
Db	833	TTGGGGCACTCCGGGGCGCGCTGCT	TTTGAACCTATAGTGACCTAAAGTATGCCCTCC	774			
QY	299	GGGTGATGGTCCAGTTTGGCCAGCTGACT	CTCCATGCCATCCTCTGAGGACCTTCGAGGCC	358			
Db	773	GGGTGATGGTCCAGTTTGGGAGCTGACT	TTCCATGCCATCTTCTGGGAGCTTCGAGGCC	714			
QY	359	-TACTACCCGTTACTTCGTATCGAATATCTAT	CTGAGCCCTCGCTACTCTGGGGAATTC	417			
Db	713	TTACTACCCGTTCTTTGGTATCGAATATCTAT	CTGAGCCCTCGCTACTCTGGGGAATTC	654			


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Db      774 TAACTGAGCCCATGCGCTGGGGCCACTG-CAAGTCAGGCCCTGGTTCCTCTGACTT 832
Qy      1025 GTTTGGTAATAAACACATTC 1044
Db      833 G-TAGGTAATAAAAAACATTC 851

RESULT 8
BI259237
LOCUS   602970095F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:5109695 5',
DEFINITION mRNA sequence.
ACCESSION BI259237.1 GI:14816376
VERSION   EST.
KEYWORDS  EST.
SOURCE    Homo sapiens (human)
ORGANISM  Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
REFERENCE 1 (bases 1 to 777)
AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
          Tissue Procurement: ATCC
          cDNA Library Preparation: Life Technologies, Inc.
          cDNA Library Arrayed by: Incyte Genomics, Inc.
          DNA Sequencing by: Incyte Genomics, Inc.
          Clone distribution: MGC clone distribution information can be
          found through the I.M.A.G.E. Consortium/LLNL at:
          http://image.llnl.gov
          Plate: LLAM11265 row: m column: 24
          High quality sequence stop: 777.

FEATURES
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        /lab_host="DH10B"
        /clone_lib="NIH_MGC_12"
        /note="Organ: cervix; Vector: pCMV-SPORT6; Site 1: NotI;
        Site 2: SalI; Cloned unidirectionally. Primer: Oligo dt.
        Average insert size 1.4 kb. Library prepared by Life
        Technologies."

ORIGIN
Query Match 69.1%; Score 760.4; DB 4; Length 777;
Best Local Similarity 99.7%; Pred. No. 3.3e-180;
Matches 772; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

Qy      68 CTCAGGAAGCCGGAGTCGACGAGGCGCGCGTATCAGACCATCGCGCCGACGGGTC 127
Db      1 CTCAGGAAGCCGGAGTCGACGAGGCGCGCGTATCAGACCATCGCGCCGACGGGTC 60

Qy      128 ATCAGCTCGGCATCGTGGGTGGAGAGGACGCCGAACCTCGGGCGCTGCGCGTGGCAGGG 187
Db      61 ATCAGCTCGGCATCGTGGGTGGAGAGGACGCCGAACCTCGGGCGTGGCGTGGCAGGG 120

Qy      188 AGCCTGCGCCTGTGGGATTTCCACGATATGCGGAGTGAGCCTGCTCAGCCACCGCTGGGCA 247
Db      121 AGCCTGCGCCTGTGGGATTTCCACGATATGCGGAGTGAGCCTGCTCAGCCACCGCTGGGCA 180

Qy      248 CTCACGGCGGCGCATCGCTTTTGAACCTATAGTACCTTAGTATGATTCCTCGGGTGGATG 307
Db      181 CTCACGGCGGCGCATCGCTTTTGAACCTATAGTACCTTAGTATGATTCCTCGGGTGGATG 240

Qy      308 GTCCAGTTTGGCCAGCTGACTTCCATGCCATCTTCTGGAGCCTGCGAGGCTACTACACC 367
Db      241 GTCCAGTTTGGCCAGCTGACTTCCATGCCATCTTCTGGAGCCTGCGAGGCTACTACACC 300

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Qy      368 CGTTACTTCTGATCGAATATATCTATCTAGCGCCTCGCTACCTGGGGAATTCACCCCTATGAC 427
Db      301 CGTTACTTCTGATCGAATATATCTATCTAGCGCCTCGCTACCTGGGGAATTCACCCCTATGAC 360

Qy      428 ATTGSCCTTGTGAAGCTGTCTGCACCTGTGCACCTTACACATAAACACATCCAGCCCATCTGT 487
Db      361 ATTGSCCTTGTGAAGCTGTCTGCACCTGTGCACCTTACACATAAACACATCCAGCCCATCTGT 420

Qy      488 CTCAGAGCCTCCACATTTGAGTTTGAAGACCGGACAGACTGCTGGGTGACTGGCTGGGG 547
Db      421 CTCAGAGCCTCCACATTTGAGTTTGAAGACCGGACAGACTGCTGGGTGACTGGCTGGGG 480

Qy      548 TACATCAAGAGGATGAGGCACTGCCATCTCCCCACACCCCTCCAGGAAGTTTCAGGTGCC 607
Db      481 TACATCAAGAGGATGAGGCACTGCCATCTCCCCACACCCCTCCAGGAAGTTTCAGGTGCC 540

Qy      608 ATCATCAACAACTCTATGTGCAACCACTCTTCTCAAGTACAGTTTCCGCAAGGACATC 667
Db      541 ATCATCAACAACTCTATGTGCAACCACTCTTCTCAAGTACAGTTTCCGCAAGGACATC 600

Qy      668 TTTGGAGACATGTTTGTGCTGGCAATGCCCAAGCGGGAAGGATGCTTCTCGGTGAC 727
Db      601 TTTGGAGACATGTTTGTGCTGGCAATGCCCAAGCGGGAAGGATGCTTCTCGGTGAC 660

Qy      728 TCAGGTGGACCCCTTGGCCTGTAAACAGGATGGAGTGTGGTATCAGATTGAGTGTGAGC 787
Db      661 TCAGGTGGACCCCTTGGCCTGTAAACAGGATGGAGTGTGGTATCAGATTGAGTGTGAGC 720

Qy      788 TGGGGAGTGGCTGTGGTGGCCCAATCGCCCGGCTGTCTACACCAATATCAGC 841
Db      721 TGGGGAGTGGCTGTGGTGGCCCAATCGCCCGGCTGTCTACACCAATATCAGC 773

RESULT 9
BI27608
LOCUS   603073575F1 NIH_MGC_119 Homo sapiens cDNA clone IMAGE:5165562 5',
DEFINITION mRNA sequence.
ACCESSION BI27608
VERSION   BI27608.1 GI:15939145
KEYWORDS  EST.
SOURCE    Homo sapiens (human)
ORGANISM  Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
REFERENCE 1 (bases 1 to 878)
AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
          Email: cgapbs-remail.nih.gov
          Tissue Procurement: Life Technologies, Inc.
          cDNA Library Preparation: Life Technologies, Inc.
          cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
          DNA Sequencing by: Incyte Genomics, Inc.
          Clone distribution: MGC clone distribution information can be
          found through the I.M.A.G.E. Consortium/LLNL at:
          http://image.llnl.gov
          Plate: LLAM11411 row: e column: 19
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FEATURES
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        /lab_host="DH10B"
        /clone_lib="NIH_MGC_119"
        /note="Organ: brain; Vector: pCMV-SPORT6; Site 1: NotI;
        Site 2: EcoRV (destroyed); RNA source normal medulla from
        anonymous male age 27. Library is oligo-dT primed and
        directionally cloned (EcoRV site is destroyed upon

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QY 284 CTTAGTATCCCTCCGGGTGGATGGTCCAGTTTGGCAGCTGACTTCCATGCCATCTCTC 343
Db 743 CTTAGTATCCCTCCGGGTGGATGGTCCAGTTTGGCAGCTGACTTCCATGCCATCTCTC 684
QY 344 TGGAGCTTCAGGCTACTACACCGGTTACTTCGTATCGAATATCTATCTGAGCCCTCGC 403
Db 683 TGGAGCTTCAGGCTACTACACCGGTTACTTCGTATCGAATATCTATCTGAGCCCTCGC 624
QY 404 TACCTGGGAATTACCTATGACATTCCTTGGTGAAGCTGTCTGACCTGTCACTAC 463
Db 623 TACCTGGGAATTACCTATGACATTCCTTGGTGAAGCTGTCTGACCTGTCACTAC 564
QY 464 ACTAAACATCCAGCCCATCTGTCTCCAGGCTCCACATTTGAGTTTGAACCGGACA 523
Db 563 ACTAAACATCCAGCCCATCTGTCTCCAGGCTCCACATTTGAGTTTGAACCGGACA 504
QY 524 GACTGCTGGGTGACTGGCTGGGGGTACATCAAGAGGATGAGGCACTGCCATCTCCCCAC 583
Db 503 GACTGCTGGGTGACTGGCTGGGGGTACATCAAGAGGATGAGGCACTGCCATCTCCCCAC 444
QY 584 ACCCTCCAGGAAGTTGAGTGGCCATCAATAACAACTCTATGTGCAACCACTCTTCTC 643
Db 443 ACCCTCCAGGAAGTTGAGTGGCCATCAATAACAACTCTATGTGCAACCACTCTTCTC 384
QY 644 AAGTACAGTTTCCGCAAGACATCTTTGGAGACATGTTTGGTGGCAATGCCCAAGGC 703
Db 383 AAGTACAGTTTCCGCAAGACATCTTTGGAGACATGTTTGGTGGCAATGCCCAAGGC 348
QY 704 GGAAGGATGCTGCTCGGTGACTCAGGTGGACCTTGGGCTGTAAACAGGATGGAAGT 763
Db 347 -----GGTACTCAGTGGACCTTTGGCTGTAAACAGGATGGAAGT 306
QY 764 TGGTATCAGATTGGAGTCTGAGCTGGGAGTGGGCTGTGGTGGCCCAATCGGCCGGT 823
Db 305 TGGTATCAGATTGGAGTCTGAGCTGGGAGTGGGCTGTGGTGGCCCAATCGGCCGGT 246
QY 824 GTCTACCAATATCAGCACACATTTGAGTGGATCCAGAGCTGATGGCCCAAGTGGC 883
Db 245 GTCTACCAATATCAGCACACATTTGAGTGGATCCAGAGTGTCTGAGTGGCCCAAGTGGC 186
QY 884 ATGTCCAGCAGACCCCTCTGCGGCTACTCTTTTCCCTCTCTCTGCGGCTCTCCA 943
Db 185 ATGTCCAGCAGACCCCTCTGCGGCTACTCTTTTCCCTCTCTCTGCGGCTCTCCA 126
QY 944 CTCCTGGGCGGCTGAGCCTACTGAGCCCATGAGCCCTGGGCGCACTGCCAAGTCAG 1003
Db 125 CTCCTGGGCGGCTGAGCCTACTGAGCCCATGAGCCCTGGGCGCACTGCCAAGTCAG 66
QY 1004 GCCCTGGTCTCTCTGCTGTTGGTAAACACATTCAGTTGA 1051
Db 65 GCCCTGGTCTCTCTGCTGTTGGTAAACACATTCAGTTGA 18
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RESULT 11
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DEFINITION qd91h05.x1 Soares testis NHT Homo sapiens cDNA clone IMAGE:1735929
3', similar to SW.FS88_HUMAN Q16651 PROSTASIN PRECURSOR, mRNA
sequence.
ACCESSION A1126185
VERSION A1126185.1 GI:3594699
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo;
REFERENCE 1 (bases 1 to 633)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
```

cDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima Bonaldo, Ph.D.

cDNA Library Arrayed by: Greg Lennon, Ph.D.

Cloning Distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image.html

Insert length: 912 Std Error: 0.00

Seq primer: -40m13 fwd. Rf from Amersham

High quality sequence stop: 455.

Location/Qualifiers

source

1. 633

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/db_xref="taxon:9606"

/clone="IMAGE:1735929"

/sex="male"

/lab_host="DH10B"

/clone_lib="Soares testis NHT"

/notes="Vector: pT73D-Fac (Pharmacia) with a modified polylinker; Site 1: Not I; Site 2: Eco RI; 1st strand cDNA was prepared from mRNA obtained from Clontech Laboratories, Inc., and primed with a Not I - oligo(dT) primer [5].

TGTACCAATCTGAAGTGGAGCGCGCCCAATTTTCTTTTCTTTT 3'.

Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT73 vector. Library went through one round of normalization to Cot5, and was constructed by Bento Soares and M. Fatima Bonaldo.

ORIGIN

Query Match 56.8%; Score 624.8; DB 1; Length 633;
Best Local Similarity 99.4%; Pred. No. 4.3e-146;
Matches 626; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 425 GACATTCCTTGGTGAAGCTGTCTGACCTGTCACTTAAACATCCAGCCCATC 484

Db 633 GACATTCCTTGGTGAAGCTGTCTGACCTGTCACTTAAACATCCAGCCCATC 574

QY 485 TGTCTCAGAGCTCCACATTTGAGTTTGAACCGGACAGACTGCTGGGTGACTGGCTGG 544

Db 573 TGTCTCAGAGCTCCACATTTGAGTTTGAACCGGACAGACTGCTGGGTGACTGGCTGG 514

QY 545 GGGTACATCAAGAGGATGAGGCACTGCCATCTCCCAACCCCTCCAGGAAGTTGAGTGC 604

Db 513 GGGTACATCAAGAGGATGAGGCACTGCCATCTCCCAACCCCTCCAGGAAGTTGAGTGC 454

QY 605 GGCATCAATAACAACTCTATGTGCAACCACTCTTCTCAAGTACAGTTTCCGCAAGGAC 664

Db 453 GGCATCAATAACAACTCTATGTGCAACCACTCTTCTCAAGTACAGTTTCCGCAAGGAC 394

QY 665 ATCTTTGGAGACATGGTTTGTGCTGGCAATGCCAAGCGGGAAGGATGCTGCTCGGT 724

Db 393 ATCTTTGGAGACATGGTTTGTGCTGGCAATGCCAAGCGGGAAGGATGCTGCTCGGT 334

QY 725 GACTCAGTGGACCTTGGCTGTAAACAGGATGGAATGCTGTGATCAGATTGGAGTGGT 784

Db 333 GACTCAGTGGACCTTGGCTGTAAACAGGATGGAATGCTGTGATCAGATTGGAGTGGT 274

QY 785 AGCTGGGAGTGGGCTGTGTGCGCCCAATCGGCCCGGTGTCTACCAATATCAGCCAC 844

Db 273 AGCTGGGAGTGGGCTGTGTGCGCCCAATCGGCCCGGTGTCTACCAATATCAGCCAC 214

QY 845 CACTTTGAGTGGATCCAGAGCTGTATGGCCAGAGTGGCATGTCCAGCAGACCCCTCC 904

Db 213 CACTTTGAGTGGATCCAGAGCTGTATGGCCAGAGTGGCATGTCCAGCAGACCCCTCC 154

QY 905 TGGCCGCTACTCTTTTCCCTCTTCTCTGGGCTCTCCCACTCTCTGGGCGGCTGTAGGC 964

Db 153 TGGCCGCTACTCTTTTCCCTCTTCTCTGGGCTCTCCCACTCTCTGGGCGGCTGTAGGC 94

QY 965 TACCTGAGCCCATGACAGCTGTGGGCGCACTGCCAAGTCAAGCCCTGGTCTCTCTCTT 1024

[illegible][illegible]

FEATURES
source

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/clone="IMAGE:5426338"
/tissue_type="astrocytoma grade IV, cell line"
/lab_host="PH103 (phage-resistant)"
/clone_lib="NIH_MGC_98"
/note="Organ: Brain; Vector: pOTB7; Site 1: XhoI; Site 2:
EcoRI; cDNA made by oligo-dT priming. Directionally

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cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."

ORIGIN		Query Match	50.0%; Score 550.4; DB 4; Length 682;	
		Best Local Similarity	98.8%; Pred. No. 2.3e-127;	
		Matches	565; Conservative 0; Mismatches 6; Indels 1; Gaps 1;	
Qy	106	AGGACCATCGCGCGACGGGTTCATCAGTCGCGGATCGTGGGTGGAGAGCGCGAACT	165	
Db	111	AGGACCATCGCGCGACGGGTTCATCAGTCGCGGATCGTGGGTGGAGAGCGCGAACT	170	
Qy	166	CGGCGTTGGCC-GTGGCAGGGAGCGCTGCGCTGTGGATTCGCCATGATCGGAGTGA	224	
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Qy	225	GCCTGCTCAGCACCGCTGGGCACCTACCGCGGCGCACTGCTTTGAAACCTATAGTGACC	284	
Db	231	GCCTGCTCAGCACCGCTGGGCACCTACCGCGGCGCACTGCTTTGAAACCTATAGTGACC	290	
Qy	285	TTAGTGATCCCTCGCGGTGGATGCTCAGTTTGGCCAGCTGACCTCCATGCCATCCTTCT	344	
Db	291	TTAGTGATCCCTCGCGGTGGATGCTCAGTTTGGCCAGCTGACCTCCATGCCATCCTTCT	350	
Qy	345	GGAGCTCAGCGCTTACTACACCGTTCCTGATCGAATATCTATCTGAGCCCTCGCT	404	
Db	351	GGAGCTCAGCGCTTACTACACCGTTCCTGATCGAATATCTATCTGAGCCCTCGCT	410	
Qy	405	ACCTGGGGAATTCACCCCTATGACATTCGCTTGGTGAAGCTGTCTGCACCTGTCACTACA	464	
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Qy	465	CTAAACACATCAGCCCATCTGTCTCAGGCTTCCACATTTGAGTTTGAGAACCGGACAG	524	
Db	471	CTAAACACATCAGCCCATCTGTCTCAGGCTTCCACATTTGAGTTTGAGAACCGGACAG	530	
Qy	525	ACTGTGGGTGACTGGCTGGGGGTACATCAAGAGGATGAGGCACTGCATCTCCCCACA	584	
Db	531	ACTGTGGGTGACTGGCTGGGGGTACATCAAGAGGATGAGGCACTGCATCTCCCCACA	590	
Qy	585	CCCTCCAGGAATTCAGTCCGCATCATATAACACTCTATGTGCAACACCACTCTTCTCTCA	644	
Db	591	CCCTCCAGGAATTCAGTCCGCATCATATAACACTCTATGTGCAACACCACTCTTCTCTCA	650	
Qy	645	AGTACAGTTTCCGCAAGACATCTTTGGAGAC	676	
Db	651	AGTACAGTTTCCGCAAGACATCTCGGGAGAC	682	

RESULT 14
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DEFINITION AGNCOURT 6558382 NIH_MGC_119 Homo sapiens cDNA clone IMAGE:5742958
5', mRNA sequence.
BM553333
VERSION BM553333.1 GI:18791973
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 1219)
NIH-MGC <http://mgc.nci.nih.gov/>.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Life Technologies, Inc.
cDNA Library Preparation: Life Technologies, Inc.

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
Plate: LLAM12761 Row: 0 Column: 23
High quality sequence stop: 553.
Location/Qualifiers
1. 1219
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/clone_lib="NIH_MGC_119"
/notes="Organ: brain; Vector: pCMV-SPORT6; Site 1: Not1; Site 2: EcoRV (destroyed); RNA source normal medulla from anonymous male age 27. Library is oligo-dT primed and directionally cloned (EcoRV site is destroyed upon cloning). Average insert size 1.3 kb, insert size range 0.9-3 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 013. Note: this is a NIH_MGC Library."

ORIGIN		Query Match	49.9%; Score 548.8; DB 4; Length 1219;	
		Best Local Similarity	91.8%; Pred. No. 6.5e-127;	
		Matches	602; Conservative 0; Mismatches 52; Indels 2; Gaps 2;	
Qy	106	AGGACCATCGCGCGACGGGTTCATCAGTCGCGGATCGTGGGTGGAGAGCGCGAACT	165	
Db	66	AGGACCATCGCGCGACGGGTTCATCAGTCGCGGATCGTGGGTGGAGAGCGCGAACT	125	
Qy	166	CGGCGTTGGCCGTGGCAGGGAGCGCTGCGCTGTGGATTCGCCATGATCGGAGTGA	225	
Db	126	CGGCGTTGGCCGTGGCAGGGAGCGCTGCGCTGTGGATTCGCCATGATCGGAGTGA	185	
Qy	226	CTGTCTCAGCCACCGCTGGGCACCTCAGCGGCGCACTGCTTTGAAACCTATAGTGACCT	285	
Db	186	CTGTCTCAGCCACCGCTGGGCACCTCAGCGGCGCACTGCTTTGAAACCTATAGTGACCT	245	
Qy	286	TAGTGATCCCTCGGGTGGATGCTCAGTTTGGCCAGCTGACCTTCCATGCGCATCTCTG	345	
Db	246	TAGTGATCCCTCGGGTGGATGCTCAGTTTGGCCAGCTGACCTTCCATGCGCATCTCTG	305	
Qy	346	GAGCTCGAGGCTTACTACACCGGTTCCTGATCGAATATCTATCTGAGCCCTCGCTA	405	
Db	306	GAGCTCGAGGCTTACTACACCGGTTCCTGATCGAATATCTATCTGAGCCCTCGCTA	365	
Qy	406	CCTGGGGAATTCACCTATGACATTCGCTTGGTGAAGCTGTCTGCACCTGTCACTACAC	465	
Db	366	CCTGGGGAATTCACCTATGACATTCGCTTGGTGAAGCTGTCTGCACCTGTCACTACAC	425	
Qy	466	TAAACACATCCAGCCCATCTGTCTCCAGGCTTCCACATTTGAGTTTGAGAACCGGACAGA	525	
Db	426	TAAACACATCCAGCCCATCTGTCTCCAGGCTTCCACATTTGAGTTTGAGAACCGGACAGA	485	
Qy	526	CTGCTGGGTGACTGGCTGGGGGTACATCAAGAGGATGAGGCACTGCATCTCCCCACAC	585	
Db	486	CTGCTGGGTGACTGGCTGGGGGTACATCAAGAGGATGAGGCACTGCATCTCCCCACAC	545	
Qy	586	CCTCCAGGAATTCAGGTCCGCATCATATAACACTCTATGTGCAACCACTCTTCTCTCAA	645	
Db	546	CCTCCAGGAATTCAGGTCCGCATCATATAACACTCTATGTGCAACCACTCTTCTCTCAA	605	
Qy	646	GTACA-GTTTCCGCAAGGACATC-TTTGGAGACATGTTTGTGTGCGCAATGCCAAGGC	703	
Db	606	GTACAGGTTCCGCAAGGACATCTTTTGGAGACTTGTGTGTGCTGGCAGATGCCAAG	665	
Qy	704	GGGAGGATGCTCTTCGGTGAATCTAGGTGGACCTTGGCTGTAAACAGGATGG	759	

487	TCTCAGGCGCTCCACATTTGTAGTTTGAGAAACCGGACAGACTGCTGGTGACTGGCTGGGG	546
QY		
590	TCTCCAGGCGCTCNACATTNGAGTTTGGAGAACCGGACAACTGCTGGGTNACTGGCTGGGG	531
Db		
547	GTCATATCAAGAGGATGAGGCACATCGCATCTCCCC-ACACCTCCACGGAAGTTCAAGTCG	605
QY		
530	GTATCATCAAGGAGGATGAGGCACATGCCATCTCCCCACACCTTCCAGGAAGTTCAAGTCG	471
Db		
606	CCATCATAAACAACCTCTATGTGCAACCACTCTTCTCAAGTACAGTTTCCCGAAGGACA	665
QY		
470	CCATCATAAACAACCTCTATGTGCAACCACTCTTCTCAAGTACAGTTTCCCGAAGGACA	411
Db		
666	TCTTTTGGAGACATGGTTTGTGCTGGC-AATGCCCAAGCGGGGAAGGATCCCTGCTTCGGT	724
QY		

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: March 5, 2005, 04:37:53 ; Search time 722.188 Seconds
(without alignments)
9038.138 Million cell updates/sec

Title: US-10-040-647-5

Perfect score: 1100

Sequence: 1 CGCGGAGAGAGGCCATGG.....AAAAAAAAAAAAAAAAAAAA 1100

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 5401638 seqs, 2966923429 residues

Total number of hits satisfying chosen parameters: 10803276

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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17: /cgn2_6/ptodata/2/pubpna/US10E_PUBCOMB.seq:*
18: /cgn2_6/ptodata/2/pubpna/US10F_PUBCOMB.seq:*
19: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
20: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
21: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
22: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1100	100.0	1100	14	US-10-040-647-5
2	1090.6	99.1	1100	9	US-09-903-320-256
3	1090.6	99.1	1100	9	US-09-903-088B-256
4	1090.6	99.1	1100	9	US-09-905-291A-256
5	1090.6	99.1	1100	9	US-09-902-853-256
6	1090.6	99.1	1100	9	US-09-907-824-256
7	1090.6	99.1	1100	9	US-09-907-841-256
8	1090.6	99.1	1100	10	US-09-904-011-256
9	1090.6	99.1	1100	10	US-09-903-640-256
10	1090.6	99.1	1100	10	US-09-908-093-256
11	1090.6	99.1	1100	10	US-09-906-742-256

12 1090.6 99.1 1100 10 US-09-906-838-256 Sequence 256, App
13 1090.6 99.1 1100 10 US-09-907-613-256 Sequence 256, App
14 1090.6 99.1 1100 10 US-09-907-942-256 Sequence 256, App
15 1090.6 99.1 1100 10 US-09-904-859-256 Sequence 256, App
16 1090.6 99.1 1100 10 US-09-909-204-256 Sequence 256, App
17 1090.6 99.1 1100 10 US-09-904-820-256 Sequence 256, App
18 1090.6 99.1 1100 10 US-09-904-786-256 Sequence 256, App
19 1090.6 99.1 1100 10 US-09-906-646-256 Sequence 256, App
20 1090.6 99.1 1100 10 US-09-906-700-256 Sequence 256, App
21 1090.6 99.1 1100 10 US-09-903-786-256 Sequence 256, App
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25 1090.6 99.1 1100 10 US-09-904-956-256 Sequence 256, App
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27 1090.6 99.1 1100 10 US-09-907-794-256 Sequence 256, App
28 1090.6 99.1 1100 10 US-09-903-943-256 Sequence 256, App
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38 1090.6 99.1 1100 10 US-09-905-348-256 Sequence 256, App
39 1090.6 99.1 1100 10 US-09-905-088-256 Sequence 256, App
40 1090.6 99.1 1100 10 US-09-907-575-256 Sequence 256, App
41 1090.6 99.1 1100 10 US-09-905-075-256 Sequence 256, App
42 1090.6 99.1 1100 10 US-09-902-759-256 Sequence 256, App
43 1090.6 99.1 1100 10 US-09-902-634-256 Sequence 256, App
44 1090.6 99.1 1100 10 US-09-902-713-256 Sequence 256, App
45 1090.6 99.1 1100 10 US-09-907-979-256 Sequence 256, App

ALIGNMENTS

RESULT 1

US-10-040-647-5
; Sequence 5, Application US/10040647
; Publication No. US20030092154A1
; GENERAL INFORMATION:
; APPLICANT: (US only) ANTALIS Toni Marie and HOOPER John David
; TITLE OF INVENTION: NOVEL MOLECULES
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
; STREET: 400 GARDEN CITY PLAZA
; CITY: GARDEN CITY
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION NUMBER: US/10/040.647
; FILING DATE: 07-Jan-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/023,942
; FILING DATE: <Unknown>
; APPLICATION NUMBER: P05101/97
; FILING DATE: 13-FEB-1997
; APPLICATION NUMBER: PP0422/97
; FILING DATE: 18-NOV-1997
; APPLICATION NUMBER: International PCT Application
; FILING DATE: 13-FEB-1998
; ATTORNEY/AGENT INFORMATION:


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, PRIOR APPLICATION NUMBER: PCT/US99/20344
, PRIOR FILING DATE: 1999-09-13
, PRIOR APPLICATION NUMBER: PCT/US99/21090
, PRIOR FILING DATE: 1999-09-15
, PRIOR APPLICATION NUMBER: PCT/US99/21547
, PRIOR FILING DATE: 1999-09-15
, PRIOR APPLICATION NUMBER: PCT/US99/23089
, PRIOR FILING DATE: 1999-10-05
, PRIOR APPLICATION NUMBER: PCT/US99/28214
, PRIOR FILING DATE: 1999-11-29
, PRIOR APPLICATION NUMBER: PCT/US99/28313
, PRIOR FILING DATE: 1999-11-30
, PRIOR APPLICATION NUMBER: PCT/US99/28564
, PRIOR FILING DATE: 1999-12-02
, PRIOR APPLICATION NUMBER: PCT/US99/28565
, PRIOR FILING DATE: 1999-12-02
, PRIOR APPLICATION NUMBER: PCT/US99/30095
, PRIOR FILING DATE: 1999-12-16
, PRIOR APPLICATION NUMBER: PCT/US99/30911
, PRIOR FILING DATE: 1999-12-20
, PRIOR APPLICATION NUMBER: PCT/US99/30999
, PRIOR FILING DATE: 1999-12-20
, PRIOR APPLICATION NUMBER: PCT/US00/00219
, PRIOR FILING DATE: 2000-01-05
, NUMBER OF SEQ ID NOS: 423
, SEQ ID NO 256
, LENGTH: 1100
, TYPE: DNA
, ORGANISM: Homo Sapien
US-09-909-320-256

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Query Match	99.1%;	Score 1090.6;	DB 9;	Length 1100;
Best Local Similarity	99.6%;	Pred. No. 0;		

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Qy	61	GGCTGGACTCAGGAAGCCGAGTGCAGGAGCGCGCGCTTATCAGAACCATGCGGCGG	120							
Db	64	GGCTGGACTCAGGAAGCCGAGTGCAGGAGCGCGCGCTTATCAGAACCATGCGGCGG	123							
Qy	121	ACGGGTCAATCAGCTCGCGCATCTGTGGGTGGAGAGGAGCCGGAACCTCGGGCGTGGCGCGT	180							
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Qy	181	GCAGGGAGCCTCGCGCCTGTGGGATTCACAGTATGCGGAGTGAGCCCTGCTCAGACCA	240							
Db	184	GCAGGGAGCCTCGCGCCTGTGGGATTCACAGTATGCGGAGTGAGCCCTGCTCAGACCA	243							
Qy	241	CTGGGCACTCAGCGCGGCGCACTGCTTTTGAACCTATATGTAACCTTATGTGATCCCTCCGG	300							
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Qy	301	GTGGATGGTCAGTTTGGCCAGCTGACCTTCATGCGCATCTCTTGTGAGACCTGTGAGGCTTA	360							
Db	304	GTGGATGGTCAGTTTGGCCAGCTGACCTTCATGCGCATCTCTTGTGAGACCTGTGAGGCTTA	363							
Qy	361	CTACACCGGTACCTTGGTATCGAATATCTATCTGAGCCCTCGCTACCTGGGGGATTCACC	420							
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Db	424	CTATGACATTCGCTTGGTGAAGCTGTCTGCACTGTCTACCTACACTAAACACATCCAGCC	483							
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Db	484	CATCTGTCTCCAGGCCTCCACATTTGAGTTTGTGAGAACCGGACAGACTCTGCGGTGACTGG	543							
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Qy	781	CGTGAGCTGGGAGTGGGCTGTGGTTCGGCCCAATCGGCCCGGTGTCTACACCAATATCAG	840
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Qy	961	AGCTACTCAGGCCCATCGACGCTGGGGCCCACTGCCAAAGTCAGGCCCTGGTTCTTCTCTG	1020
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Qy	1021	TCTTGTGTTGTAATAACACATTCAGTTGATGCTTGTGAGGGCATTTTTTCAAAAAAAA	1080
Db	1024	TCTTGTGTTGTAATAACACATTCAGTTGATGCTTGTGAGGGCATTTTTTCAAAAAAAA	1083
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Db	1084	AAAAAAAAAAAAAAAAA 1100	

RESULT 3

US-09-909-088B-256

; Sequence 256, Application US/09909088B

; Patent No. US20020146709A1

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Baton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, A.

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, Christopher J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Hillan, Kenneth, J.

; APPLICANT: Kijavlin, Ivar J.

; APPLICANT: Mather, Jennie P.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE OF INVENTION: Acids Encoding the Same

; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/909, 088B

RESULT 3

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US-09-909-0898-256
; Sequence 256, Application US/09909088B
; Patent No. US20020146709A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transferred
; TITLE OF INVENTION: Acids Encoding and Methods of Use
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909088B

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US-09-907-824-256
; Sequence 256, Application US/09907824
; Publication No. US20020197671A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,824
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 256
; LENGTH: 1100

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Qy 901 CTCCTGGCCGCTACTCTTTTTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 960
Db 904 CTCCTGGCCGCTACTCTTTTTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 963
Qy 961 AGCTACTCTGAGCCCAATGAGCCCTGGGGCCACTGGCCCAAGTGGCATGTCACAGCCCTG 1020
Db 964 AGCTACTCTGAGCCCAATGAGCCCTGGGGCCACTGGCCCAAGTGGCATGTCACAGCCCTG 1023
Qy 1021 TCTTGTGTGTAATAAACACATTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAG 1080
Db 1024 TCTTGTGTGTAATAAACACATTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAG 1083
Qy 1081 AAAAAAAAAAAAAAAAAA 1097
Db 1084 AAAAAAAAAAAAAAAAAA 1100

RESULT 9
US-09-903-640-256
; Sequence 256, Application US/09903640
; Publication No. US20030017463A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/903,640
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 256
; LENGTH: 1100
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-903-640-256

Query Match 99.1%; Score 1090.6; DB 10; Length 1100;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1093; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Db 61 GGCTGAGCTCAGGAAGCCCGAGTGGAGAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 120
Db 64 GGCTGAGCTCAGGAAGCCCGAGTGGAGAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 123
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Db 124 ACGGCTCATCAGTGGCGCATCGTGGGTGGAGAGGAGCGCCGAACCTCGGGCGTGGCCGTG 183
Qy 181 GCAGGGGAGCGCTGGCGCTGTGGGATCCACGATGCGGAGTGGAGCTGTGAGCCACCG 240
Db 184 GCAGGGGAGCGCTGGCGCTGTGGGATCCACGATGCGGAGTGGAGCTGTGAGCCACCG 243
Qy 241 CTGGGCACTCAGCGCGCGCGCACTGCTTTGAAAACCTATAGTGACCTTTAGTGATCCCTCC 300
Db 244 CTGGGCACTCAGCGCGCGCGCACTGCTTTGAAAACCTATAGTGACCTTTAGTGATCCCTCC 303
Qy 301 GTGGATGGTCCAGTGGCCAGCTGACTTTCCATGCGCATCTTCTGGAGCGCTGCGAGCCCTA 360
Db 304 GTGGATGGTCCAGTGGCCAGCTGACTTTCCATGCGCATCTTCTGGAGCGCTGCGAGCCCTA 363
Qy 361 CTACACCCGTTACTTGGTATCGAATATCTATCTGAGCCCTCGTACCTGGGGAATTCACC 420
Db 364 CTACACCCGTTACTTGGTATCGAATATCTATCTGAGCCCTCGTACCTGGGGAATTCACC 423
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Db 484 CATCTGTCTCCAGGCGCTCCACATTTGAGTTTGAGAACCGGACAGACTGTGCGGTGACTGG 543
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Db 604 GGTGGCATCATAAACAACTCTATGTGCAACCACTCTTCTCAAGTACAGTTTCGCAAA 663
Qy 661 GGACATCTTTGGAGACATGGTTTGTGTGGCAATGCCAAAGCGGGAAGGATGCGTGTCT 720
Db 664 GGACATCTTTGGAGACATGGTTTGTGTGGCAATGCCAAAGCGGGAAGGATGCGTGTCT 723
Qy 721 CGGTGACTCAGGTGGACCCCTTGGCCCTGTAAACAGGATGAGCTGTGTATCAGATTGGAGT 780
Db 724 CGGTGACTCAGGTGGACCCCTTGGCCCTGTAAACAGGATGAGCTGTGTATCAGATTGGAGT 783
Qy 781 CGTGAGCTGGGAGTGGGCTGTGGTCGGCCCAATCGGCCCGGTGTCTACACCAATATCAG 840
Db 784 CGTGAGCTGGGAGTGGGCTGTGGTCGGCCCAATCGGCCCGGTGTCTACACCAATATCAG 843
Qy 841 CCACCACTTTGAGTGAATCCAGAAGCTGATGGCCCAAGTGGCATGTCACAGCCAGACCC 900
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Qy 961 AGCTACTCTGAGCCCAATGAGCCCTGGGGCCACTGGCCCAAGTGGCATGTCACAGCCCTG 1020
Db 964 AGCTACTCTGAGCCCAATGAGCCCTGGGGCCACTGGCCCAAGTGGCATGTCACAGCCCTG 1023
Qy 1021 TCTTGTGTGTAATAAACACATTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAG 1080
Db 1024 TCTTGTGTGTAATAAACACATTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAG 1083
Qy 1081 AAAAAAAAAAAAAAAAAA 1097
Db 1084 AAAAAAAAAAAAAAAAAA 1100


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QY 541 CTGGGGTACATCAAGAGGATGAGGCACTCCCATCTCCCAACACCCCTCCAGGAATTC 600
Db 544 CTGGGGTACATCAAGAGGATGAGGCACTCCCATCTCCCAACACCCCTCCAGGAATTC 603
QY 601 GGTGCCATCAAACTCTATGTGCAACACCTCTTCTCAAGTACAGTTTCGCA 660
Db 604 GGTGCCATCAAACTCTATGTGCAACACCTCTTCTCAAGTACAGTTTCGCA 663
QY 661 GGACATCTTTGGAGACATGGTTTGTCTGGCAATGCCCAAGCGGGAAGATGCTGCTT 720
Db 664 GGACATCTTTGGAGACATGGTTTGTCTGGCAACGCCCAAGCGGGAAGATGCTGCTT 723
QY 721 CGGTGACCTCAGGTGACCCCTTGGCTGTAAACAAGATGGAATGTGGATTCAGT 780
Db 724 CGGTGACCTCAGGTGACCCCTTGGCTGTAAACAAGATGGAATGTGGATTCAGT 783
QY 781 CGTGAGCTGGGAGTGGCTGTGGCTGGCCCAATCGGCCCGCTCTACACCAATATCAG 840
Db 784 CGTGAGCTGGGAGTGGCTGTGGCTGGCCCAATCGGCCCGCTCTACACCAATATCAG 843
QY 841 CCACCATTTGAGTGGATCCAGAAAGCTGATGGCCAGAGTGGCATGCCAGCCAGACCC 900
Db 844 CCACCATTTGAGTGGATCCAGAAAGCTGATGGCCAGAGTGGCATGCCAGCCAGACCC 903
QY 901 CTCCTGGCCGTACTCTTTTCCCTCTTCTCTGGGCTCTCCACTCTGGGGCCGGTCTG 960
Db 904 CTCCTGGCCGTACTCTTTTCCCTCTTCTCTGGGCTCTCCACTCTGGGGCCGGTCTG 963
QY 961 AGCTTACTGAGCCCATGCGCCCTGGGGCCACTGCGAAGTCCAGCCCTGGTCTCTCTCTG 1020
Db 964 AGCTTACTGAGCCCATGCGCCCTGGGGCCACTGCGAAGTCCAGCCCTGGTCTCTCTCTG 1023
QY 1021 TCTTGTGGTAAATAACACATTCAGTTGATGCTTGCAGGGCATTTTTCAAAAA 1080
Db 1024 TCTTGTGGTAAATAACACATTCAGTTGATGCTTGCAGGGCATTTTTCAAAAA 1083
QY 1081 AAAAAAAAAAAAAA 1097
Db 1084 AAAAAAAAAAAAAA 1100
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RESULT 13

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US-09-907-613-256
; Sequence 256, Application US/09907613
; Publication No. US20030027145A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gottitsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
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; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,613
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 256
; LENGTH: 1100
; TYPE: DNA
; ORGANISM: Homo Sapien
; US-09-907-613-256

Query Match 99.1%; Score 1090.6; DB 10; Length 1100;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1093; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 CGCGGAGAGGAGGCCATGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 60
Db 4 CGCGGAGAGGAGGCCATGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 63
QY 61 GCCTGGACTCAGGAAGCCGGAGTCCGAGAGGCGCGCGCGCGCGCGCGCGCGCG 120
Db 64 GCCTGGACTCAGGAAGCCGGAGTCCGAGAGGCGCGCGCGCGCGCGCGCGCGCG 123
QY 121 ACGGGTCACTCACGTCGCGCATCGTGGGTGAGAGGACGCCGAACCTCGGGCGT 180
Db 124 ACGGGTCACTCACGTCGCGCATCGTGGGTGAGAGGACGCCGAACCTCGGGCGT 183
QY 181 GCAGGGAGGCTCGCGCTGTGGATTTCCACATGCGGAGTGAGCGCTGCTAGCACCG 240
Db 184 GCAGGGAGGCTCGCGCTGTGGATTTCCACATGCGGAGTGAGCGCTGCTAGCACCG 243
QY 241 CTGGGCACTCACGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 300
Db 244 CTGGGCACTCACGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 303
QY 301 GTGGATGGTCCAGTTTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 360
Db 304 GTGGATGGTCCAGTTTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 363
QY 361 CTACACCGTTACTTCGTATCGAATATCTATCTGAGCCCTCGTACCTGGGGAATTCACC 420
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 4, 2005, 22:18:30 ; Search time 205.888 Seconds
(without alignments)
8742.154 Million cell updates/sec

Title: US-10-040-647-5

Perfect score: 1100

Sequence: 1 CGCGGGAGAGGCGCATGG.....AAAAAAAAAAAAAAAAAAAA 1100

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 81813359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- Issued Patents NA.*
1: /cgn2_6/ptodata/1/ina/5A_COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq:*
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4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/PTCUS_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1100	100.0	1100	4	US-09-023-942A-5
2	1090.6	99.1	1100	4	US-09-907-794A-256
3	1090.6	99.1	1100	4	US-09-905-125A-256
4	1090.6	99.1	1100	4	US-09-902-775A-256
5	1090.6	99.1	1100	4	US-09-906-700-256
6	1090.6	99.1	1100	4	US-09-903-603A-256
7	1090.6	99.1	1100	4	US-09-904-920A-256
8	1090.6	99.1	1100	4	US-09-909-064-256
9	1090.6	99.1	1100	4	US-09-905-381A-256
10	1090.6	99.1	1100	4	US-09-906-618-256
11	1078	98.0	1094	4	US-09-023-942A-3
12	1051.2	95.6	1081	3	US-09-008-271A-15
13	751	68.3	1103	3	US-09-386-642-59
14	482.2	43.8	959	4	US-09-023-942A-25
15	351.6	32.0	3866	4	US-09-023-942A-27
16	168.2	15.3	1110	3	US-09-386-653A-1
17	165	15.0	1212	4	US-09-620-312D-431
18	164.8	15.0	980	4	US-09-023-942A-30
19	157.4	14.3	1130	3	US-09-386-653A-8
20	133	12.1	1165	4	US-09-023-942A-28
21	133	12.1	1378	4	US-09-907-794A-262
22	133	12.1	1378	4	US-09-905-125A-262
23	133	12.1	1378	4	US-09-902-775A-262
24	133	12.1	1378	4	US-09-906-700-262
25	133	12.1	1378	4	US-09-903-603A-262
26	133	12.1	1378	4	US-09-904-920A-262
27	133	12.1	1378	4	US-09-909-064-262

28	133	12.1	1378	4	US-09-905-381A-262	Sequence 262, Appl
29	133	12.1	1378	4	US-09-906-618-262	Sequence 262, Appl
30	133	12.1	1430	3	US-09-386-629-1	Sequence 1, Appli
31	128.4	11.7	1166	3	US-09-386-629-2	Sequence 2, Appli
32	125.8	11.4	942	4	US-09-636-382A-3	Sequence 3, Appli
33	119.6	10.9	2440	4	US-09-949-016-5210	Sequence 5210, Ap
34	119.6	10.9	2440	4	US-09-949-016-5211	Sequence 5211, Ap
35	119.6	10.9	2440	4	US-09-949-016-5212	Sequence 5212, Ap
36	119.4	10.9	1142	3	US-09-386-642-8	Sequence 8, Appli
37	119.4	10.9	1169	3	US-09-386-642-7	Sequence 7, Appli
38	117	10.6	1108	2	US-09-016-366A-14	Sequence 14, Appl
39	117	10.6	1108	2	US-08-978-404B-20	Sequence 20, Appl
40	115.4	10.5	1137	2	US-09-016-366A-18	Sequence 18, Appl
41	115.4	10.5	1137	2	US-08-978-404B-13	Sequence 13, Appl
42	114.8	10.4	1341	4	US-10-177-661-3	Sequence 3, Appli
43	114.8	10.4	1434	4	US-10-177-661-1	Sequence 1, Appli
44	114.8	10.4	1748	4	US-09-879-792-11	Sequence 11, Appl
45	114	10.4	1615	4	US-09-820-002-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1
US-09-023-942A-5
; Sequence 5, Application US/09023942A
; Patent No. 6479274
; GENERAL INFORMATION:
; APPLICANT: (US only) ANTALIS Toni Marie and HOOPER John David
; TITLE OF INVENTION: NOVEL MOLECULES
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
; STREET: 400 GARDEN CITY PLAZA
; CITY: GARDEN CITY
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 11530

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/023,942A
FILING DATE: 13-FEB-1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: POS101/97
FILING DATE: 13-FEB-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PP0422/97
FILING DATE: 18-NOV-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: International PCT Application
FILING DATE: 13-FEB-1998
ATTORNEY/AGENT INFORMATION:
NAME: DIGIGLIO, FRANK S
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 11169
TELECOMMUNICATION INFORMATION:
TELEPHONE: (516) 742 4343
TELEFAX: (516) 742 4366
TELEX: 230 901 SANS UR
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 1100 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
FEATURE:
NAME/KEY: CDS

QY	841	CCACCACTTTGAGTGCATCCAGAAGCTGATGGCCCAAGAGTGGCATGTCCACGACGAGACCC	900
Db	844	CCACCACTTTGAGTGCATCCAGAAGCTGATGGCCCAAGAGTGGCATGTCCACGACGAGACCC	903
QY	901	CTCCTGGCCGCTACTCTTTTTCCTCTTCTCTGGGCTCTCCCACTCTCTGGGGCCGGTCTG	960
Db	904	CTCTGGCCCACTACTCTTTTTCCTCTTCTCTGGGCTCTCCCACTCTCTGGGGCCGGTCTG	963
QY	961	AGCTACTCTAGAGCCCATGACGCTGGGGCCACTGGCCAAAGTCAGGCCCTGTCTCTTCTG	1020
Db	964	AGCTACTCTAGAGCCCATGACGCTGGGGCCACTGGCCAAAGTCAGGCCCTGTCTCTTCTG	1023
QY	1021	TCTGTGTTGGTATATAACACATTTCCAGTTGATGCCCTTGAGGGGCATTTTTCAAAAA	1080
Db	1024	TCTGTGTTGGTATATAACACATTTCCAGTTGATGCCCTTGAGGGGCATTTTTCAAAAA	1083
QY	1081	AAAAAAAAAAAAAAAAAAAA 1097	
Db	1084	AAAAAAAAAAAAAAAAAAAA 1100	

RESULT 3

US-09-905-125A-256

; Sequence 256, Application US/09905125A

; Patent No. 6664376

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Baton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, A.

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, Christopher J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Hillan, Kenneth, J.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Mather, Jennie P.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; TITLE OF INVENTION: Acids Encoding the Same

; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/905,125A

; CURRENT FILING DATE: 2001-07-12

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: US 60/143,048

; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698

; PRIOR FILING DATE: 1999-07-26

; PRIOR APPLICATION NUMBER: US 60/146,222

; PRIOR FILING DATE: 1999-07-28

; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08

; PRIOR APPLICATION NUMBER: PCT/US99/20944

; PRIOR FILING DATE: 1999-09-13

; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/21547

; PRIOR FILING DATE: 1999-09-15


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; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 256
; LENGTH: 1100
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-902-775A-256

Query Match      99.1%; Score 1090.6; DB 4; Length 1100;
Best Local Similarity 99.6%; Pred. No. 2.7e-252;
Matches 1093; Conservative 0; Mismatches 4; Indels 0; Gaps 0

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QY   61   GGCTGGACTCAGGAAGCCGGAGTCGACGAGGCGCGCCGTTATCAGGACCATTGCGCGCG     120
DB   64   GCCTGCACTCAGGAAGCCGGAGTCGACGAGGCGCGCCGTTATCAGGACCATTGCGCGCG     123

QY  121   ACGGGTGATCATCGTCCGCATCGTGGGTGGAGAGAACGCCAACTCGGGGCTTGGCCGTG     180
DB  124   ACGGGTGATCATCGTCCGCATCGTGGGTGGAGAGAACGCCAACTCGGGCGTTGGCCGTG     183

QY  181   GCAGGGGAGCCTGCGCCTGTGGGATCCCACGTA TGCGGAGTCAGCTGTCTAGCACCG     240
DB  184   GCAGGGGAGCCTGCGCCTGTGGGATCCCACGTA TGCGGAGTCAGCTGTCTAGCACCG     243

QY  241   CTGGGSCATCTCACGGCGCGCACTGCTTTGAAA CCTATAGTAGACTTAGTCCCTCCGG     300
DB  244   CTGGGSCATCTCACGGCGCGCACTGCTTTGAAA CCTATAGTAGACTTAGTCCCTCCGG     303

QY  301   GTGGATGTGCAGTTTGGCCAGCTGA CTTCCA TGC CAT TCCTTCGGAGCTGCGAGCCTA     360
DB  304   GTGGATGTGTGCAGTTTGGCCAGCTGA CTTCCA TGC CAT TCCTTCGGAGCTGCGAGCCTA     363

QY  361   CTACACCGGTACTTCGTATCGAATA TCTATCTGAGCCCTCGCTACTCTGGGNAATTCA CC     420
DB  364   CTACACCGGTACTTCGTATCGAATA TCTATCTGAGCCCTCGCTACTCTGGGNAATTCA CC     423

QY  421   CTATGACA TTGGCTTGGTGA AGCTGTGTG CA C CTGTGCA CTC TACCTAAAA CACA TTCAGGC     480
DB  424   CTATGACA TTGGCTTGGTGA AGCTGTGTG CA C CTGTGCA CTC TACCTAAAA CACA TTCAGGC     483

QY  481   CATCTGTCTCTCAGGCGCTCCAC ATT TG ATTTG GA AACCGG ACAGA C TGTG TGGGTGA CTCGG     540
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Db	484	CATCTCTCTCCAGGCTCCACATTTTTCAGTTTGAGAACCGGACAGACTGCTGGGTGACTGG	543
Qy	541	CTGGGGGTATCATCAAGAGAGGATGAGGCACTGCCCATCTCCCCACACCCCTCCAGGAAGTTCA	600
Db	544	CTGGGGGTATCATCAAGAGAGGATGAGGCACTGCCCATCTCCCCACACCCCTCCAGGAAGTTCA	603
Qy	601	GGTGGCCATCATAAACAACACTATATGTGCAACCACTCTCTCCCTCAAGTACAGTTTCCGCAA	660
Db	604	GGTGGCCATCATAAACAACACTATATGTGCAACCACTCTCTCCCTCAAGTACAGTTTCCGCAA	663
Qy	661	GGACATCTTTTGGAGACATGGTTTGTGCTGGCAATGCCCAAGCGGGAAGGATGCCCTGCTT	720
Db	664	GGACATCTTTTGGAGACATGGTTTGTGCTGGCAATGCCCAAGCGGGAAGGATGCCCTGCTT	723
Qy	721	CGGTGACTCAGGTGGACCCCTTGGCCCTGTAAACAAGGATGCACTGTGTGTATCAGATTGGAGT	780
Db	724	CGGTGACTCAGGTGGACCCCTTGGCCCTGTAAACAAGGATGCACTGTGTGTATCAGATTGGAGT	783
Qy	781	CGTGAAGCTGGGAGTGGGCTGTGGTTCGGGCCCAATCGGCCCGGTGTCTACCACAATATCAG	840
Db	784	CGTGAAGCTGGGAGTGGGCTGTGGTTCGGGCCCAATCGGCCCGGTGTCTACCACAATATCAG	843
Qy	841	CCACCACTTTTGAAGTGAATCCAGAAGCTGTATGGGCCAGAGTGGCATGTCCAGCCAGACCC	900
Db	844	CCACCACTTTTGAAGTGAATCCAGAAGCTGTATGGGCCAGAGTGGCATGTCCAGCCAGACCC	903
Qy	901	CTCTCGCCCGCTACTCTTTTTTCCCTCTCTCTGGGCTCTCCCACTCTCGGGGCGGTCTG	960
Db	904	CTCTCGCCCGCTACTCTTTTTTCCCTCTCTCTGGGCTCTCCCACTCTCGGGGCGGTCTG	963
Qy	961	AGCTACCTAGGCCCATCAGAGCTGGGGCCACTGCGCAAGTGCAGGCGCTGGTTCTCTTCTG	1020
Db	964	AGCTACCTAGGCCCATCAGAGCTGGGGCCACTGCGCAAGTGCAGGCGCTGGTTCTCTTCTG	1023
Qy	1021	TCTTGTGGTGAATAAACAATCCAGTTGATGCCCTTGCAGGGCATTTTTTCAAAAAAAA	1080
Db	1024	TCTTGTGGTGAATAAACAATCCAGTTGATGCCCTTGCAGGGCATTTTTTCAAAAAAAA	1083
Qy	1081	AAAAAAAAAAAAAAAAAAAA 1097	
Db	1084	AAAAAAAAAAAAAAAAAAAA 1100	

RESULT 5
US-09-906-700-256
; Sequence 256, Application US/09906700
; Patent No. 6723535
; GENERAL INFORMATION:
; APPLICANT: Gentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fillvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey

QY 781 CGTGAGCTGGGAGTGGGCTGTGGTGGCCCAATCGGCCCGGCTGTCTACCAATATACAG 840
DB |||||
784 CGTGAGCTGGGAGTGGGCTGTGGTGGCCCAATCGGCCCGGCTGTCTACCAATATACAG 843
QY 841 CCACCACCTTTGAGTGGATCCAGAGCTGATGGCCCGAGAGTGGCATGCCAGCCAGACCC 900
DB |||||
844 CCACCACCTTTGAGTGGATCCAGAGCTGATGGCCCGAGAGTGGCATGCCAGCCAGACCC 903
QY 901 CTCCTGGCCGCTACTCTTTTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 960
DB |||||
904 CTCCTGGCCGCTACTCTTTTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 963
QY 961 AGCTACTCTGAGCCATGACGCTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1020
DB |||||
964 AGCTACTCTGAGCCATGACGCTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1023
QY 1021 TCTTGTGTTGTAATAAACAACATCCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTC 1080
DB |||||
1024 TCTTGTGTTGTAATAAACAACATCCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTC 1083
QY 1081 AAAAAAAAAAAAAA 1037
DB |||||
1084 AAAAAAAAAAAAAA 1100

RESULT 10

US-09-906-618-256

; Sequence 256, Application US/09906618

; Patent No. 6828146

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Botstein, David

; APPLICANT: Desnovers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, A.

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, Christopher J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Hillan, Kenneth J.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Mather, Jennie P.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas P.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/906.618

; CURRENT FILING DATE: 2001-07-16

; PRIOR APPLICATION NUMBER: PCT/US00/04414

; PRIOR FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: US 60/143,048

; PRIOR FILING DATE: 1999-07-07

; PRIOR APPLICATION NUMBER: US 60/145,698

; PRIOR FILING DATE: 1999-07-26

; PRIOR APPLICATION NUMBER: US 60/146,222

; PRIOR FILING DATE: 1999-07-28

; PRIOR APPLICATION NUMBER: PCT/US99/20594

; PRIOR FILING DATE: 1999-09-08

; PRIOR APPLICATION NUMBER: PCT/US99/20944

; PRIOR FILING DATE: 1999-09-13

; PRIOR APPLICATION NUMBER: PCT/US99/21090

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/21547

; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/23089

; PRIOR FILING DATE: 1999-10-05

; PRIOR APPLICATION NUMBER: PCT/US99/28214

; PRIOR FILING DATE: 1999-11-29

; PRIOR APPLICATION NUMBER: PCT/US99/28313

; PRIOR FILING DATE: 1999-11-30

; PRIOR APPLICATION NUMBER: PCT/US99/28564

; PRIOR FILING DATE: 1999-12-02

; PRIOR APPLICATION NUMBER: PCT/US99/28565

; PRIOR FILING DATE: 1999-12-02

; PRIOR APPLICATION NUMBER: PCT/US99/30095

; PRIOR FILING DATE: 1999-12-16

; PRIOR APPLICATION NUMBER: PCT/US99/30911

; PRIOR FILING DATE: 1999-12-20

; PRIOR APPLICATION NUMBER: PCT/US99/30999

; PRIOR FILING DATE: 1999-12-20

; PRIOR APPLICATION NUMBER: PCT/US00/00219

; PRIOR FILING DATE: 2000-01-05

; NUMBER OF SEQ ID NOS: 423

; SEQ ID NO 256

; LENGTH: 1100

; TYPE: DNA

; ORGANISM: Homo Sapien

US-09-906-618-256

QY 1 CGCGGAGAGAGGCCATGGCG 60
DB |||||
4 CGCGGAGAGAGGCCATGGCG 63
QY 61 GCGTGGACTCAGGAAGCCGAGTGCAGAGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 120
DB |||||
64 GCGTGGACTCAGGAAGCCGAGTGCAGAGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 123
QY 121 ACGGGTCTATCAGCTCGCGCATCGTGGGTGAGAGGAGCGCGAACTCGGGCGGTGCGCG 180
DB |||||
124 ACGGGTCTATCAGCTCGCGCATCGTGGGTGAGAGGAGCGCGAACTCGGGCGGTGCGCG 183
QY 181 GCAGGGAGGCTGCGCGCTGTGGGATTCACGATGCGGAGTGCAGCTGCTCAGCCACCG 240
DB |||||
184 GCAGGGAGGCTGCGCGCTGTGGGATTCACGATGCGGAGTGCAGCTGCTCAGCCACCG 243
QY 241 CTGGGCACTCAGCGCGCGCATCTGCTTTGAAAACCTATAGTGACCTTAGTGATCCCTCGG 300
DB |||||
244 CTGGGCACTCAGCGCGCGCATCTGCTTTGAAAACCTATAGTGACCTTAGTGATCCCTCGG 303
QY 301 GTGGATGCTCCAGTTGGCGCAGCTGCTCCATGCGCATCTCTGAGCGCTTCTGAGCGGCTTA 360
DB |||||
304 GTGGATGCTCCAGTTGGCGCAGCTGCTCCATGCGCATCTCTGAGCGCTTCTGAGCGGCTTA 363
QY 361 CTACACCGGTACTTCTGATCGAATATCTATCTGAGCGCTTCTGAGCGCTTCTGAGCGGCTTA 420
DB |||||
364 CTACACCGGTACTTCTGATCGAATATCTATCTGAGCGCTTCTGAGCGCTTCTGAGCGGCTTA 423
QY 421 CTATGACATTTGCTTGTGTAAGTGTCTGCACTGTCTGCACTGTCTGCACTGTCTGCACTGT 480
DB |||||
424 CTATGACATTTGCTTGTGTAAGTGTCTGCACTGTCTGCACTGTCTGCACTGTCTGCACTGT 483
QY 481 CATCTGCTCCAGGCTCCACATTTGAGTTGAGAACGGGACGACGTCTGGGTGACTGG 540
DB |||||
484 CATCTGCTCCAGGCTCCACATTTGAGTTGAGAACGGGACGACGTCTGGGTGACTGG 543
QY 541 CTGGGGGTACATCAAGAGGATGAGGCACTGCCCATCTCTCCACACCTCTCCAGGAGTTCA 600
DB |||||
544 CTGGGGGTACATCAAGAGGATGAGGCACTGCCCATCTCTCCACACCTCTCCAGGAGTTCA 603

Query Match 99.1%; Score 1090.6; DB 4; Length 1100;

Best Local Similarity 99.6%; Pred. No. 2.7e-232;

Matches 1093; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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QY 601 GGTGCCATCATAAACAACTCTATGTGAACACCTCTCTCTCAAGTACAGTTTCCGAA 660
Db 604 GGTGCCATCATAAACAACTCTATGTGAACACCTCTCTCTCAAGTACAGTTTCCGAA 663
QY 661 GGACATCTTTGGAGACATGTTTGTCTGGCAATGCCAAGCGGGAAGATGCTGCTT 720
Db 664 GGACATCTTTGGAGACATGTTTGTCTGGCAAGCCCAAGCGGGAAGATGCTGCTT 723
QY 721 CGGTGACTCAGGTGGACCTTGGCTGTAAACAGGATGCACTGTGGTATCAGATTGGAGT 780
Db 724 CGGTGACTCAGGTGGACCTTGGCTGTAAACAGGATGCACTGTGGTATCAGATTGGAGT 783
QY 781 CGTGAGCTGGGAGTGGCTGTGTGGCCCAATCGGCCCGGTGTCTACACCAATATCAG 840
Db 784 CGTGAGCTGGGAGTGGCTGTGTGGCCCAATCGGCCCGGTGTCTACACCAATATCAG 843
QY 841 CCACCACCTTTGAGTGGATCCAGAGCTGTAGGCCCGGAGTGGCATGTCCAGCCAGACCC 900
Db 844 CCACCACCTTTGAGTGGATCCAGAGCTGTAGGCCCGGAGTGGCATGTCCAGCCAGACCC 903
QY 901 CTCCTGGCCGCTACTCTTTTTCCTCTCTCTGGGCTCTCCCACTCCTGGGGCCGGTCTG 960
Db 904 CTCCTGGCCGCTACTCTTTTTCCTCTCTCTGGGCTCTCCCACTCCTGGGGCCGGTCTG 963
QY 961 AGCCTACTGAGCCCATGAGCCTGGGCGCACTGCCAAGTCAGGCCCTGTCTTCTG 1020
Db 964 AGCCTACTGAGCCCATGAGCCTGGGCGCACTGCCAAGTCAGGCCCTGTCTTCTG 1023
QY 1021 TCTTGTGTGGTAATAACACATTCAGTGTATGCTTGCAGGGCATTTTCAAAAAAAA 1080
Db 1024 TCTTGTGTGGTAATAACACATTCAGTGTATGCTTGCAGGGCATTTTCAAAAAAAA 1083
QY 1081 AAAAAAAAAAAAAAAA 1097
Db 1084 AAAAAAAAAAAAAAAA 1100

RESULT 11
US-09-023-942A-3
; Sequence 3, Application US/09023942A
; Patent No. 6479274
; GENERAL INFORMATION:
; APPLICANT: (US only) ANTALIS Toni Marie and HOOPER John David
; TITLE OF INVENTION: NOVEL MOLECULES
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
; STREET: 400 GARDEN CITY PLAZA
; CITY: GARDEN CITY
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,942A
; FILING DATE: 13-FEB-1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: P05101/97
; FILING DATE: 13-FEB-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PP0422/97
; FILING DATE: 18-NOV-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: International PCT Application
; FILING DATE: 13-FEB-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: DIGILIO, FRANK S
; REGISTRATION NUMBER: 31,346
```

```
; REFERENCE/DOCKET NUMBER: 11168
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742 4343
; TELEFAX: (516) 742 4366
; TELEX: 230 901 SANS UR
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1094 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 17..955
; US-09-023-942A-3

Query Match 98.0%; Score 1078; DB 4; Length 1094;
Best Local Similarity 99.5%; Pred. No. 8.3e-289;
Matches 1094; Conservative 0; Mismatches 0; Indels 6; Gaps 1;

QY 1 CGCGGAGAGAGGAGCCCATGCGCGCGCGCGCGCGCTGCTGCGCGCTGCTGCGCTCG 60
Db 1 CGCGGAGAGAGGAGCCCATGCGCGCGCGCGCGCGCTGCTGCGCGCTGCTGCGCTCG 60
QY 61 GGCTGGAATCAGGAAGCCGAGTGCAGGAGGCGCGCGCTTATCAGGACCATGCGGCGG 120
Db 61 GGCTGGAATCAGGAAGCCGAGTGCAGGAGGCGCGCGCTTATCAGGACCATGCGGCGG 120
QY 121 ACGGGTATCATCAGTCGCGGCATCGTGGGTGAGAGGAGCGCGAATCGGGGCTTGGCGGTG 180
Db 121 ACGGGTATCATCAGTCGCGGCATCGTGGGTGAGAGGAGCGCGAATCGGGGCTTGGCGGTG 180
QY 181 GCAGGGAGGCTCGCGCTGTGGGATTTCCACGATGCGGAGTGCAGCTGCTCAGGCACCG 240
Db 181 GCAGGGAGGCTCGCGCTGTGGGATTTCCACGATGCGGAGTGCAGCTGCTCAGGCACCG 240
QY 241 CTGGGCACTCAGCGCGCGCACTGCTTTGAAACCTATAGTAGCTTATAGTATCCCTCCGG 300
Db 241 CTGGGCACTCAGCGCGCGCACTGCTTTGAAACCTATAGTAGCTTATAGTATCCCTCCGG 294
QY 301 GTGGATGGTCCAGTTTGGCCAGCTGACTTCCATGCCATCCTTCTGGAGCTCAGAGCCTA 360
Db 295 GTGGATGGTCCAGTTTGGCCAGCTGACTTCCATGCCATCCTTCTGGAGCTCAGAGCCTA 354
QY 361 CTACACCGTTACTTCGTATCGAATATCTATCTGAGCCTCTCGCTACTCTGGGGAATTCACC 420
Db 355 CTACACCGTTACTTCGTATCGAATATCTATCTGAGCCTCTCGCTACTCTGGGGAATTCACC 414
QY 421 CTATGACATTTGCTTGGTGAAGCTGTCTGCACCTGTCCACCTACACTAAACACATCCAGCC 480
Db 415 CTATGACATTTGCTTGGTGAAGCTGTCTGCACCTGTCCACCTACACTAAACACATCCAGCC 474
QY 481 CATCTGTCTCAGGCTTCCACATTTGAGTTTGAACCGGACAGACTGCTGGGTGATCG 540
Db 475 CATCTGTCTCAGGCTTCCACATTTGAGTTTGAACCGGACAGACTGCTGGGTGATCG 534
QY 541 CTGGGGTATCATCAAGAGGATGAGGACCTGCCATCTCCCAACACCTCCAGGAAGTTCA 600
Db 535 CTGGGGTATCATCAAGAGGATGAGGACCTGCCATCTCCCAACACCTCCAGGAAGTTCA 594
QY 601 GGTCCGCATCATAAACAACTCTATGTGAACACCTCTTCTCTCAAGTACAGTTTCCGCA 660
Db 595 GGTCCGCATCATAAACAACTCTATGTGAACACCTCTTCTCTCAAGTACAGTTTCCGCA 654
QY 661 GGACATCTTTGGAGACATGTTTGTCTGGCAATGCCAAGCGGGAAGATGCTGCTT 720
Db 655 GGACATCTTTGGAGACATGTTTGTCTGGCAATGCCAAGCGGGAAGATGCTGCTT 714
QY 721 CGGTGACTCAGGTGGAGCCCTTGGCCTGTAAACAGGATGCACTGTGGTATCAGATTGGAGT 780
Db 715 CGGTGACTCAGGTGGAGCCCTTGGCCTGTAAACAGGATGCACTGTGGTATCAGATTGGAGT 774
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Db 984 AGCTACCTGAGCCATGACGACCTGGGGCCACTGCCAAGTCAGGCCCTGCTTCTTCTG 1043
Qy 1021 TCTTGTGTTGTAATAAACAACATTCAGTTGATGCT 1056
Db 1044 TCTTGTGTTGTAATAAACAACATTCAGTTGATGCT 1079
RESULT 13
US-09-386-642-59
; Sequence 59, Application US/09386642
; Patent No. 6420157
; GENERAL INFORMATION:
; APPLICANT: Darrow, Andrew
; APPLICANT: Qi, Jensen
; APPLICANT: Andrade-Gordon, Patricia
; TITLE OF INVENTION: Zymogen Activation System
; FILE REFERENCE: ORT-1028
; CURRENT APPLICATION NUMBER: US/09/386.642
; CURRENT FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 60
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 59
; LENGTH: 1103
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic acid
; OTHER INFORMATION: sequence of human protease P in CPEK2 zymogen
; OTHER INFORMATION: vector
US-09-386-642-59
Query Match 68.3%; Score 751; DB 3; Length 1103;
Best Local Similarity 93.4%; Pred. No. 4.4e-198;
Matches 784; Conservative 0; Mismatches 55; Indels 0; Gaps 0;
Qy 140 ATCGTGGGTGAGAGGACGCGAACTCGGGCGTTGGCGTGGCAGGGAGCCTGCGCTG 199
Db 139 ATCGTGGGGCTATGCTCTAGAACTCGGGCGTTGGCGTGGCAGGGAGGCGCTGCGCTG 198
Qy 200 TGGGATTCACGATGCGGAGTGAGCTGCTAGCCACCGCTGGGCACTCAGCGGGCG 259
Db 199 TGGGATTCACGATGCGGAGTGAGCTGCTAGCCACCGCTGGGCACTCAGCGGGCGG 258
Qy 260 CACTGCTTTGAAACCTATAGTACCTTAGTATCCCTCGGGTGGATGCTCCAGTTGGC 319
Db 259 CACTGCTTTGAAACCTATAGTACCTTAGTATCCCTCGGGTGGATGCTCCAGTTGGC 318
Qy 320 CAGCTGACTCCATGCGCATCTTCTGGAGCTGCGAGCCTACTACACCCGTTACTTCGTA 379
Db 319 CAGCTGACTCCATGCGCATCTTCTGGAGCTGCGAGCCTACTACACCCGTTACTTCGTA 378
Qy 380 TCGAATATCTATGAGCCCTCGTACTCGGGAAATTCACCTATGACATTGCTTGGTG 439
Db 379 TCGAATATCTATGAGCCCTCGTACTCGGGAAATTCACCTATGACATTGCTTGGTG 438
Qy 440 AAGCTGTGCACTGTCACTACCTATAACACATCCAGCCCACTGTCTCCAGGCGCTCC 499
Db 439 AAGCTGTGCACTGTCACTACCTATAACACATCCAGCCCACTGTCTCCAGGCGCTCC 498
Qy 500 ACATTGAGTTTGAGAACCGGACAGACTGTGGTGACTGGCTGGGGGTACATCAAGAG 559
Db 499 ACATTGAGTTTGAGAACCGGACAGACTGTGGTGACTGGCTGGGGGTACATCAAGAG 558
Qy 560 GATGAGCACTGCCATCTCCCAACCTCCAGAGTTCAGTTCGCGCATCATTAACAAC 619
Db 559 GATGAGCACTGCCATCTCCCAACCTCCAGAGTTCAGTTCGCGCATCATTAACAAC 618
Qy 620 TCTATGTCAACCACTCTTCTCAAGTACAGTTTCGCAAGGACATCTTTGAGACATG 679
Db 619 TCTATGTCAACCACTCTTCTCAAGTACAGTTTCGCAAGGACATCTTTGAGACATG 678
Qy 680 GTTTGTGCTGGCAATGCGCAAGGCGGAGAGATGCTGCTTGGTGACTCAGGTGGACCC 739

Db 679 GTTTGTGCTGGCAATGCCAAGCGGGAAGATGCTGCTTGGTGACTCAGGTGGACCC 738
Qy 740 TTGGCCCTGTAAACAAGATGAGCTGTGTATCAGATTGGAGTCTGAGCTGGGAGTGGGC 799
Db 739 TTGGCCCTGTAAACAAGATGAGCTGTGTATCAGATTGGAGTCTGAGCTGGGAGTGGGC 798
Qy 800 TGTGCTGGGCCCAATCGGCCCGGTGTCTACCAATATACGCCACCACTTTGAGTGGATC 859
Db 799 TGTGCTGGGCCCAATCGGCCCGGTGTCTACCAATATACGCCACCACTTTGAGTGGATC 858
Qy 860 CAGAAGCTGATGCCCGCAGAGTGGCATGTCCAGCCAGACCCCTCTCTGGCCGCTACTCTTT 919
Db 859 CAGAAGCTGATGCCCGCAGAGTGGCATGTCCAGCCAGACCCCTCTCTGGCTAGACATCAC 918
Qy 920 TTCCCTCTTCTCTGGGCTCTCCACCTCTGGGCGGCTCTGAGCCTACCTGAGCCCATG 978
Db 919 CATCACATCACTAGCGGCGCTTCCCTTTAGTGAGGTTAATGCTTCGAGCAGACATG 977
RESULT 14
US-09-023-942A-25
; Sequence 25, Application US/09023942A
; Patent No. 6479274
; GENERAL INFORMATION:
; APPLICANT: (US only) ANTALIS Toni Marie and HOOPER John David
; TITLE OF INVENTION: NOVEL MOLECULES
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCUDLY, SCOTT, MURPHY & PRESSER
; STREET: 400 GARDEN CITY PLAZA
; CITY: GARDEN CITY
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,942A
; FILING DATE: 13-FEB-1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: P05101/97
; FILING DATE: 13-FEB-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: P0422/97
; FILING DATE: 18-NOV-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: International PCT Application
; FILING DATE: 13-FEB-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: DIGILIO, FRANK S
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 11168
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742 4343
; TELEFAX: (516) 742 4366
; TELEX: 230 901 SANS UR
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 959 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 2..856
US-09-023-942A-25

Query Match

43.8%; Score 482.2; DB 4; Length 959;

Best Local Similarity 71.3%; Pred. No. 1.5e-123;
Matches 672; Conservative 0; Mismatches 253; Indels 18; Gaps 2;
Qy 101 TTATCAGACCATCGGCGGACGCGGTATCATCGTCGGGATCGTGGGTGGAGAGAGCGCC 160
Db 8 TTGTGAGGCGCTGGGTGATCAGAGACCATCTTCCCGTATAGTGGGTGGGATGATGCT 67
Qy 161 GAACTCGGCGCTGGCGTGGAGAGAGCGTGGCGCTGTGGGATTCACAGTATGCGGA 220
Db 68 GAGCTTGGCGCTGGCGTGGAGAGAGCGTGGCGTGTATGGGCAACCACTTATGTGGC 127
Qy 221 GTGAGCTGTGTCAGCCACCGCTGGGCACTACCGGGCGGCACTGCTTTGAAACCTATAGT 280
Db 128 GCAACCTTGTCTCAACCGCGCTGGGTGCTTACAGCTGCCCACTGCTTCCAAA----- 179
Qy 281 GACCTTATGTATCCCTCGGGTGGATGCTCCAGTTTGGCCAGCTGACTTCCATGCCATCC 340
Db 180 -AGGTAACAGATCTTTTGTAGCTGGACAGTCAAGTTTGGTGGCTGACTTCCAGGCGATCT 238
Qy 341 TTTGAGGCTGTGAGGCTTACTACCGGTTTACTTCTGTATGGAATATCTATCTGAGCCCT 400
Db 239 CTCTGGAACCTTACAGGCTTATCCAAACCGTTACCAAAATAGAAATATTTTCTGAGCCCT 298
Qy 401 CGCTACCTGGGGAATTCACCTTATGACATTCGCTTGGTGGAGCTCTGCACTGTCAAC 460
Db 299 AAGTACTCGGAGAGATATCCCAATGACATAGCCCTGCTGGAAGCTGTCTCTCCAGTCAAC 358
Qy 461 TACATAAACAATCCAGCCCATCTGCTCCAGGCTCCACATTTGAGTTTGAGAAACCGG 520
Db 359 TACATAATCTTATCCAGCCCATCTGCTCTGAACTCCAGTACAGTTTGAAGACCGA 418
Qy 521 ACAGACTGTGGGTGACTGCTGGGGTGTACATAAAGAGGATGAGGCACTGCCATCTCCC 580
Db 419 ACTGACTGTGGGTGACCGGTGGGGGCTATTGGAGAGATGAGAGTGTGCCATCTCCC 478
Qy 581 CAGACCTTCAGGAAGTTCAGGTCGCCATCATAAACAACTTATGTGGAACCACTCTTC 640
Db 479 AACACTCTCCAGGAAGTTCAGGTTAGTATTAATCAACCAACAGCATGTGTAAACCATATGTAC 538
Qy 641 CTCAAGTACAGTTTCCGCAAGGACATCTTTGGAGACATGTTTGTGTCGCAATGCCAA 700
Db 539 AAAAGCCAGACTTCCGCAAGACATCTGGGAGACATGTTTGGCTGGCACTCTCGAA 598
Qy 701 GCGGGAGAGTGCCTGCTCGGTGACTCAGGTGGACCCCTTGGCTGTAAACAGGATGGA 760
Db 599 GGTGCAAGGATGCTGCTTGGTGTACTCGGAGAGCCCTTGGCTTGGACAGGATACG 658
Qy 761 CTGTGTATCAGATGAGTGGAGTGGGAGTGGGCTGTGTGGCCCAATCGGCC 820
Db 659 GTGTGTATCAGTTGGAGTTGTGAGCTGGGGAATAGGCTGTGTGTCGCCCAATCGCCCT 718
Qy 821 GGTGTCTACACCAATATCAGCCACACATTTTGGATGGATCCAGAGCTGATGGCCACAGT 880
Db 719 GGAGTCTATACCAATCATGATCATCACTAAGTTCAGTCAACATGATCCGCAAT 778
Qy 881 GGCAATGTCCAGCAGACCCCTCTCGGCGCTACTCTTTTTTCCCTTCTCTCTGGGCTCTC 940
Db 779 GGGCTGTCTAGGCTGAGCCAGTCCCTTGTCTACTGTTTCTACTCTGGGCTGGGCTTCC 838
Qy 941 CCATCTCTGGGCGGCTGAGCTTACCTAGCCCATGAGCCCTGGGCGCACTGCCAAGT 1000
Db 839 TCTTGTCTGAGGCGCTGCTGAGCCACACAGTGTACGTACACCTGTG-----AGGT 889
Qy 1001 CAGGCCCTGTCTTCTGTCTTGTGTTTGGTAATAAACACATT 1043
Db 890 CAGGCTGTCTCTTTTGTATCTTGTCTGCTAATAAACCTGTT 932

RESULT 15
US-09-023-942A-27
; Sequence 27, Application US/09023942A
; Patent No. 6479274
; GENERAL INFORMATION:

APPLICANT: (US only) ANTALIS Toni Marie and HOOPER John David
TITLE OF INVENTION: NOVEL MOLECULES
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
STREET: 400 GARDEN CITY PLAZA
CITY: GARDEN CITY
STATE: NEW YORK
COUNTRY: USA
ZIP: 11530
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/023,942A
FILING DATE: 13-FEB-1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: POS101/97
FILING DATE: 13-FEB-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PP0422/97
FILING DATE: 18-NOV-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: International PCT Application
FILING DATE: 13-FEB-1998
ATTORNEY/AGENT INFORMATION:
NAME: DIGILIO, FRANK S
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 11168
TELECOMMUNICATION INFORMATION:
TELEPHONE: (516) 742 4343
TELEFAX: (516) 742 4366
TELEX: 230 901 SANS UR
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-09-023-942A-27

Query Match 32.0%; Score 351.6; DB 4; Length 3866;
Best Local Similarity 97.5%; Pred. No. 5.3e-87;
Matches 357; Conservative 0; Mismatches 9; Indels 0; Gaps 0;
Qy 710 GATGCTCTGCTTCGGTGTGACTCAGGTGGACCCCTTGGCCTGTAAACAGGATGAGTGTGTTAT 769
Db 3336 GCTGCTCCCGAGGTGACTCAGGTGGACCCCTTGGCCTGTAAACAGGATGAGTGTGTTAT 3395
Qy 770 CAGATTGGAGTCTGAGCTGGGAGTGGGCTGTGGTGGCCCAATCGGCCCGGTGTCTAC 829
Db 3396 CAGATTGGAGTCTGAGCTGGGAGTGGGCTGTGGTGGCCCAATCGGCCCGGTGTCTAC 3455
Qy 830 ACCAATATCAGCCACCATTTTGTAGTGTATCCAGAGCTGATGGCCCAAGAGTGGCATGTCC 889
Db 3456 ACCAATATCAGCCACCATTTTGTAGTGTATCCAGAGCTGATGGCCCAAGAGTGGCATGTCC 3515
Qy 890 CAGCCAGACCCCTCTGCGGCTACTCTTTTCCCTCTTCTCTGGGCTCTCCCACTCTCTG 949
Db 3516 CAGCCAGACCCCTCTGCGGCTACTCTTTTCCCTCTTCTCTGGGCTCTCCCACTCTCTG 3575
Qy 950 GGGCCGCTCTGAGCTTACCTGAGCCCATGAGCCCTGGGGCCCATGCCAAGTCAAGCCCTG 1009
Db 3576 GGGCCGCTCTGAGCTTACCTGAGCCCATGAGCCCTGGGGCCCATGCCAAGTCAAGCCCTG 3635
Qy 1010 GTTCTCTTCTGCTGTTTGTGTTGTAATAAACACATTCCAGTTGTAGTCCCTTGCAGGGCATTTT 1069
Db 3636 GTTCTCTTCTGCTGTTTGTGTTGTAATAAACACATTCCAGTTGTAGTCCCTTGCAGGGCATTTT 3695

Qy 1070 TCAAAA 1075
| | | | |
Db 3696 TCAAAA 3701

Search completed: March 5, 2005, 09:20:35
Job time : 209.888 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: March 4, 2005, 20:46:39 ; Search time 674.27 Seconds
(without alignments)
9657.430 Million cell updates/sec

Title: US-10-040-647-5

Perfect score: 1100
Sequence: 1 CGCGGAGAGAGGCCATGG.....AAAAAAAAAAAAAAAAAAAA 1100

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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1: Geneseqn1980s:*

2: Geneseqn1990s:*

3: Geneseqn2000s:*

4: Geneseqn2001as:*

5: Geneseqn2001bs:*

6: Geneseqn2002as:*

7: Geneseqn2002bs:*

8: Geneseqn2003as:*

9: Geneseqn2003bs:*

10: Geneseqn2003cs:*

11: Geneseqn2003ds:*

12: Geneseqn2004as:*

13: Geneseqn2004bs:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1098.4	99.9	1100	2	AAV59119 Nucleotid
2	1090.6	99.1	1100	2	AAX52259 Protein P
3	1090.6	99.1	1100	3	ADC78568 Human PRO
4	1090.6	99.1	1100	4	Aaf72417 Human PRO
5	1090.6	99.1	1100	8	ACA60211 Human CDN
6	1090.6	99.1	1100	8	ACD07611 Novel hum
7	1090.6	99.1	1100	8	ABX71659 Human CDN
8	1090.6	99.1	1100	8	ACH06991 Human sec
9	1090.6	99.1	1100	8	ABX96228 Human sec
10	1090.6	99.1	1100	8	ACA05549 cDNA enco
11	1090.6	99.1	1100	8	ACD20216 Human sec
12	1090.6	99.1	1100	8	ACA55019 Novel hum
13	1090.6	99.1	1100	9	ACD19854 Human sec
14	1090.6	99.1	1100	9	ADB29461 Human sec
15	1090.6	99.1	1100	9	ADA18317 Human sec
16	1090.6	99.1	1100	9	ACD67001 Human CDN
17	1090.6	99.1	1100	9	ACD83162 Human PRO
18	1090.6	99.1	1100	9	ADA16292 Human PRO
19	1090.6	99.1	1100	9	ADA42437 Human sec
20	1090.6	99.1	1100	9	ACD23340 Human PRO

21	1090.6	99.1	1100	9	ADA16716 Human sec
22	1090.6	99.1	1100	9	ADA13145 Human sec
23	1090.6	99.1	1100	9	ADA42013 Human sec
24	1090.6	99.1	1100	9	ADA17360 Human sec
25	1090.6	99.1	1100	9	ADA42863 Human sec
26	1090.6	99.1	1100	9	ACD23702 Human PRO
27	1090.6	99.1	1100	10	ADB77782 Human sec
28	1090.6	99.1	1100	10	ADB74918 Human sec
29	1090.6	99.1	1100	10	ADC28564 Human sec
30	1090.6	99.1	1100	10	ADC39764 Human sec
31	1090.6	99.1	1100	10	ADC40278 Human sec
32	1090.6	99.1	1100	10	ADC19102 Human sec
33	1090.6	99.1	1100	10	ADC34402 Human sec
34	1090.6	99.1	1100	10	ADC29457 Human sec
35	1090.6	99.1	1100	10	ADC28988 Human sec
36	1090.6	99.1	1100	10	ADC40873 Human sec
37	1090.6	99.1	1100	10	ADC19530 Human sec
38	1090.6	99.1	1100	10	ADC33978 Human sec
39	1090.6	99.1	1100	10	ADC13048 Human sec
40	1090.6	99.1	1100	10	ADC12500 Human sec
41	1090.6	99.1	1100	10	ADD05055 Human sec
42	1090.6	99.1	1100	10	ADD04061 Human sec
43	1090.6	99.1	1100	10	ADD03637 Human sec
44	1090.6	99.1	1100	10	ADE34889 Human sec
45	1090.6	99.1	1100	10	ADD89044 Encoding

ALIGNMENTS

RESULT 1

AAV59119

ID AAV59119 standard; DNA; 1100 BP.

XX

AC AAV59119;

XX

DT 07-JAN-1999 (first entry)

XX

DE Nucleotide sequence of long isoform of HELA2.

XX

KW Serine protease; regulation; cell activity; viability; HELA2; ATC2;

KW BCOM3; testisin; fertility; suppressor; testicular germ cell cancer;

KW seminoma; testis-specific expression; antitumour; sperm development;

KW infertility; ss.

XX

OS Homo sapiens.

XX

FH Key Location/Qualifiers

FT CDS 17..961

FT /*tag= a

FT /product= "HELA2"

XX

PN W09836054-A1.

XX

PD 20-AUG-1998.

XX

PF 13-FEB-1998; 98WO-AU0000085.

XX

PR 13-FEB-1997; 97AU-00005101.

PR 18-NOV-1997; 97AU-00000422.

XX

PA (AMRA-) AMRAD OPERATIONS PTY LTD.

XX

PI Antalis TM, Hooper JD;

XX

DR WPI; 1998-480768/41.

DR P-ESDB; AAW77297.

XX

PT New serine protease(s) and kinase involved in regulating cell activity

PT and viability - particularly the testis-specific protease HELA2 used for

PT modulation of fertility and as tumour suppressor.

XX

PS Claim 6; Page 62-64; 167pp; English.

XX The present sequence represents the nucleotide sequence of the long
CC isoform of HELA2. cDNA generated from HeLa cells and PAI-2 expressing
CC HeLa cells was amplified using PCR primers AAV48312-13. Three new
CC sequences were detected in the 480 bp amplicon. These sequences are
CC designated HELA2 and ATC2 which have high homology to serine proteases
CC and ECOW3 which has homology to a kinase. The proteins are involved in or
CC associated with regulation of cell activity and/or viability.
CC Administration of recombinant HELA2 (also called testin) is used to
CC increase fertility. Downregulation of HELA2 reduces fertility. HELA2 is
CC also a suppressor of testicular germ cell cancers (seminoma) and is also
CC expressed in some non-testicular cancers (of colon, pancreas, prostate
CC and ovary), so is a marker/potential therapeutic target for cancer. The
CC promoter from the HELA2 gene is useful for testis-specific expression of
CC other genes, e.g. for gene therapy or modulation of fertility. Drugs that
CC block activity of HELA2 should have antitumour activity (other than in
CC testis) while in testis recombinant HELA2 should stop growth of tumours
CC and normalise sperm development (eliminating the need for orchidectomy).
CC Identification of mutant forms of HELA2 can be used to diagnose
CC infertility
XX Sequence 1100 BP; 225 A; 319 C; 313 G; 242 T; 0 U; 0 Other;

Db	661	GGACATCTTTGGAGACATGGTTTGTGCTGCAATGCCAATGCCAAGCGGGNAGGATGCCTGCTT	720
Qy	721	CGGTGACTCAGGTGGACCCCTTGGCCCTGTAAACAAGATGGACTCTGTGTATCAGATTGGAGT	780
Db	721	CGGTGACTCAGGTGGACCCCTTGGCCCTGTAAACAAGATGGACTCTGTGTATCAGATTGGAGT	780
Qy	781	CGTGAGCTGGGAGTGGGCTGTGGTGGGCCCAATCGGCCGGTGTCTACACCAATATCAG	840
Db	781	CGTGAGCTGGGAGTGGGCTGTGGTGGGCCCAATCGGCCGGTGTCTACACCAATATCAG	840
Qy	841	CCACCATTGTAGTGGATCCAGAAGCTGATGGCCAGAGTGGCATGTCCCAGCCAGACCC	900
Db	841	CCACCATTGTAGTGGATCCAGAAGCTGATGGCCAGAGTGGCATGTCCCAGCCAGACCC	900
Qy	901	CTCTGGCCCTACTCTTTTTTCCCTCTTCTCTGGGCTCTCCCACTCTCTGGGGCCGGTCTG	960
Db	901	CTCTGGCCCTACTCTTTTTTCCCTCTTCTCTGGGCTCTCCCACTCTCTGGGGCCGGTCTG	960
Qy	961	AGCCTACTGAGCCCATGCAAGCTGGGGCCACTGGCCAAAGTCAGGCCCTGTTTCTCTTCTG	1020
Db	961	AGCCTACTGAGCCCATGCAAGCTGGGGCCACTGGCCAAAGTCAGGCCCTGTTTCTCTTCTG	1020
Qy	1021	TCCTGTTGGTATAAACAATCCAGTTGATGCCTTGACGGGCATTTTTCAAAAAAA	1080
Db	1021	TCCTGTTGGTATAAACAATCCAGTTGATGCCTTGACGGGCATTTTTCAAAAAAA	1080
Qy	1081	AAAAAAAAAAAAAAAAAAAA 1100	
Db	1081	AAAAAAAAAAAAAAAAAAAA 1100	
RESULT 2			
AAAX52259			
ID	AAAX52259 standard; DNA; 1100 BP.		
XX	AAAX52259;		
AC			
XX			
XX	25-JUN-1999 (first entry)		
XX	Protein PRO303 cDNA clone DNA42551-1217.		
DE	Secreted protein; transmembrane protein; human; enterocolitis;		
XX	Zollinger-Ellison syndrome; gastrointestinal ulceration;		
KW	congenital microvillus atrophy; skin disease; cell growth;		
KW	abnormal keratinocyte differentiation; psoriasis; epithelial cancer;		
KW	Parkinson's disease; Alzheimer's disease; ALS; neuropathy; fibromodulin;		
KW	dermal scarring; Usher Syndrome; Atrophia areata; anti-thrombotic;		
KW	wound healing; tissue repair; ss.		
OS	Homo sapiens.		
XX	WO9914328-A2.		
XX	25-MAR-1999.		
XX	16-SEP-1998; 98WO-US019330.		
XX	17-SEP-1997; 97US-0059113P.		
PR	17-SEP-1997; 97US-0059115P.		
PR	17-SEP-1997; 97US-0059117P.		
PR	17-SEP-1997; 97US-0059119P.		
PR	17-SEP-1997; 97US-0059121P.		
PR	17-SEP-1997; 97US-0059122P.		
PR	17-SEP-1997; 97US-0059184P.		
PR	18-SEP-1997; 97US-0059263P.		
PR	18-SEP-1997; 97US-0059266P.		
PR	15-OCT-1997; 97US-0062125P.		
PR	17-OCT-1997; 97US-0062285P.		
PR	17-OCT-1997; 97US-0062287P.		
PR	24-OCT-1997; 97US-0063486P.		
PR	21-OCT-1997; 97US-0062814P.		
PR	24-OCT-1997; 97US-0062816P.		
PR	24-OCT-1997; 97US-0063045P.		

PR	24-OCT-1997;	97US-0063120P.	
PR	24-OCT-1997;	97US-0063121P.	
PR	24-OCT-1997;	97US-0063127P.	
PR	24-OCT-1997;	97US-0063128P.	
PR	27-OCT-1997;	97US-0063327P.	
PR	27-OCT-1997;	97US-0063329P.	
PR	28-OCT-1997;	97US-0063541P.	
PR	28-OCT-1997;	97US-0063542P.	
PR	28-OCT-1997;	97US-0063544P.	
PR	28-OCT-1997;	97US-0063549P.	
PR	28-OCT-1997;	97US-0063550P.	
PR	28-OCT-1997;	97US-0063564P.	
PR	28-OCT-1997;	97US-0063435P.	
PR	29-OCT-1997;	97US-0063704P.	
PR	29-OCT-1997;	97US-0063732P.	
PR	29-OCT-1997;	97US-0063734P.	
PR	29-OCT-1997;	97US-0063735P.	
PR	29-OCT-1997;	97US-0063738P.	
PR	29-OCT-1997;	97US-0064215P.	
PR	31-OCT-1997;	97US-0063870P.	
PR	31-OCT-1997;	97US-0064103P.	
PR	03-NOV-1997;	97US-0064248P.	
PR	07-NOV-1997;	97US-0064809P.	
PR	12-NOV-1997;	97US-0065186P.	
PR	17-NOV-1997;	97US-0065846P.	
PR	18-NOV-1997;	97US-0065693P.	
PR	21-NOV-1997;	97US-0066120P.	
PR	21-NOV-1997;	97US-0066364P.	
PR	24-NOV-1997;	97US-0066453P.	
PR	24-NOV-1997;	97US-0066466P.	
PR	24-NOV-1997;	97US-0066511P.	
PR	24-NOV-1997;	97US-0066770P.	
PR	24-NOV-1997;	97US-0066772P.	
PR	25-NOV-1997;	97US-0066840P.	
XX			
XX	(GETH) GENENTECH INC.		
XX			
XX	Wood WI, Gurney AL, Goddard A, Pennica D, Chen J, Yuan J;		
PI	WPI; 1999-229533/19.		
DR	P-PSDB; AAV13388.		
DR			
XX			
PT	New isolated human genes and polypeptides used in, e.g. treatment of		
PT	Gastrointestinal ulceration.		
PS	Claim 2; Fig 91; 320pp; English.		
XX			
XX			
CC	AA5213-74 encode secreted and transmembrane human proteins, and are		
CC	obtained from cDNA libraries, prepared from fetal lung, fetal kidney,		
CC	fetal brain, fetal liver and fetal retina. The encoded polypeptides have		
CC	specific uses based on their homology to known polypeptides, e.g. PRO211		
CC	and PRO217 can be used for disorders associated with the preservation and		
CC	maintenance of gastrointestinal mucosa and the repair of acute and		
CC	chronic mucosal lesions (e.g. enterocolitis, Zollinger-Ellison syndrome,		
CC	gastrointestinal ulceration and congenital microvillus atrophy), skin		
CC	diseases associated with abnormal keratinocyte differentiation (e.g.		
CC	psoriasis, epithelial cancers such as lung squamous cell carcinoma of the		
CC	vulva and gliomas), potent effects on cell growth and development,		
CC	diseases related to growth or survival of nerve cells including		
CC	Parkinson's disease, Alzheimer's disease, ALS, neuropathies or cancer.		
CC	PRO265 can be used as for fibromodulin, e.g. for reducing dermal		
CC	scarring. PRO264 can be used as a target for anti-tumor drugs. PRO533 may		
CC	be used in the treatment of Usher Syndrome or Atrophia areata; PRO269 can		
CC	be used as an anti-thrombotic agent; PRO287 polypeptides and portions may		
CC	have therapeutic applications in wound healing and tissue repair; PRO317		
CC	can be used for treating problems of the kidney, uterus, endometrium,		
CC	blood vessels, or related tissue, e.g. in the heart of genital tract		
XX			
SQ	Sequence 1100 BP; 225 A; 321 C; 314 G; 240 T; 0 U; 0 Other;		
	Query Match 99.1%; Score 1090.6; DB 2; Length 1100;		
	Best Local Similarity 99.6%; Fred. No. 4.4e-227;		
	Matches 1093; Conservative 0; Mismatches 4; Indels 0; Gaps		

Query Match	99.1%;	Score 1090.6;	DB 2;	Length 1100;
Best Local Similarity	99.6%;	Pred. No. 4.4e-227;		
Matches 1093;	Conservative	0;	Mismatches 4;	Indels 0; Gaps 0

Qy	1	CGCGGAGAGGAGCGCCATGCGCGCGCGCGCGCGCTGCTGCTGCGCGCTGCTGCTGCGCGCTGCTGCTGCGCTG	60
Db	4	CGCGGAGAGAGCGCCATGCGCGCGCGCGCGCGCGCTGCTGCTGCGCGCTGCTGCTGCGCGCTGCTGCTGCGCTG	63
Qy	61	GGCTGGACTCAGGAAGCGCGAGTTCGACAGAGGCGCGCGCTTATCAGGACCATGCGCGCG	120
Db	64	GGCTGGACTCAGGAAGCGCGAGTTCGACAGAGGCGCGCGCTTATCAGGACCATGCGCGCG	123
Qy	121	ACGGGTTCATCACGTCGCGCATCGTGGGTGGAGAGGACGCCGAATCTGGGCGTTTGGCGGTG	180
Db	124	ACGGGTTCATCACGTCGCGCATCGTGGGTGGAGAGGACGCCGAATCTGGGCGTTTGGCGGTG	183
Qy	181	GCAGGGAGGCTCGCGCTGTGGATTCACACGATATGCGGAGTGAGCTGTCTCAGCCACCG	240
Db	184	GCAGGGAGGCTCGCGCTGTGGATTCACACGATATGCGGAGTGAGCTGTCTCAGCCACCG	243
Qy	241	CTGGGCACCTCACGGCGCGCACTGCTTTGAAACCTATAGTGACCTTAGTGATCCCTCCGG	300
Db	244	CTGGGCACCTCACGGCGCGCACTGCTTTGAAACCTATAGTGACCTTAGTGATCCCTCCGG	303
Qy	301	GTGGATGGTCCAGTTTGGCCGAGCTGACTTCCATGCCATCCTCTGGAGCCTGCAGGCGTA	360
Db	304	GTGGATGGTCCAGTTTGGCCGAGCTGACTTCCATGCCATCCTCTGGAGCCTGCAGGCGTA	363
Qy	361	CTACACCGGTTACTCGTATCGAATATCTATGTAGCCCTCGTACTCGGGGAATTCACC	420
Db	364	CTACACCGGTTACTCGTATCGAATATCTATGTAGCCCTCGTACTCGGGGAATTCACC	423
Qy	421	CTATGACATTCCTTGGTGAAGCTGTCTGCACCTGTCACTACATAACACATTCAGCC	480
Db	424	CTATGACATTCCTTGGTGAAGCTGTCTGCACCTGTCACTACATAACACATTCAGCC	483
Qy	481	CATCTGTCTCAGCGCTCCACATTTGAGTTTGAGAACCGGACAGACTGCTGGGGTACTGG	540
Db	484	CATCTGTCTCAGCGCTCCACATTTGAGTTTGAGAACCGGACAGACTGCTGGGGTACTGG	543
Qy	541	CTGGGGGTACATCAAGAGGATGAGGCACTGCCATCTCCCCACACCCCTCCAGGAAGTTCA	600
Db	544	CTGGGGGTACATCAAGAGGATGAGGCACTGCCATCTCCCCACACCCCTCCAGGAAGTTCA	603
Qy	601	GGTGGCCATCAATAACAACTATATGTGCAACCACTTCTCCTCAAGTACAGTTTCGCAA	660
Db	604	GGTGGCCATCAATAACAACTATATGTGCAACCACTTCTCCTCAAGTACAGTTTCGCAA	663
Qy	661	GGACATCTTTGGAGACATGTTTGTGCTGGCAATGCCAAGGCGGAGAGTACGCTGCTT	720
Db	664	GGACATCTTTGGAGACATGTTTGTGCTGGCAATGCCAAGGCGGAGAGTACGCTGCTT	723
Qy	721	CGGTGACTCAGGTGGACCTTTGGCCCTGTAAACAGGATGGACTGTGCTATCAGATTCGAGT	780
Db	724	CGGTGACTCAGGTGGACCTTTGGCCCTGTAAACAGGATGGACTGTGCTATCAGATTCGAGT	783
Qy	781	CGTGAGCTGGGAGTGGGCTGTGGTCCGCCCAATCGGCCCGGTGTCTACACCAATATCAG	840
Db	784	CGTGAGCTGGGAGTGGGCTGTGGTCCGCCCAATCGGCCCGGTGTCTACACCAATATCAG	843
Qy	841	CCACCACTTTGAGTGATCCAGAGTGATGGGCCGAGTGAGCTGTCCAGCCAGACCC	900
Db	844	CCACCACTTTGAGTGATCCAGAGTGATGGGCCGAGTGAGCTGTCCAGCCAGACCC	903
Qy	901	CTCCTGGCGCTACTCTTTTTCCTTCTCTGGGCTCTCCCACTCTGGGCGGGTCTG	960
Db	904	CTCCTGGCGCTACTCTTTTTCCTTCTCTGGGCTCTCCCACTCTGGGCGGGTCTG	963
Qy	961	AGCCTACCTGAGCCCATGCACTGGGGCCACTGCCAAGTCAGGCCCTGGTCTCTTCTG	1020
Db	964	AGCCTACCTGAGCCCATGCACTGGGGCCACTGCCAAGTCAGGCCCTGGTCTCTTCTG	1023
Qy	1021	TCCTGTTTGGTATAAACACATTCAGATTGATGCCCTTGACGGGCATTTTCAAAAAAAA	1080
Db	1024	TCCTGTTTGGTATAAACACATTCAGATTGATGCCCTTGACGGGCATTTTCAAAAAAAA	1083


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QY 1021 TCTGTTTGGTAATAACACATTCAGTTGATGCTTCAGGCGCATTTTCAAAAAAAA 1080
Db 1024 TCTGTTTGGTAATAACACATTCAGTTGATGCTTCAGGCGCATTTTCAAAAAAAA 1083
QY 1081 AAAAAAAAAAAAAAAA 1097
Db 1084 AAAAAAAAAAAAAAAA 1100

RESULT 5
ACAG60211
ID ACA60211 standard; cDNA; 1100 BP.
AC ACA60211;
XX
DT 12-JUN-2003 (first entry)
XX
DE Human cDNA for secreted/transmembrane protein PRO303.
XX
KW Human; ss; gene; secreted protein; transmembrane protein; PRO;
KW gene therapy; chromosome identification; chromosome marker.
XX
OS Homo sapiens.
XX
PN US2003003530-A1.
XX
PD 02-JAN-2003.
XX
PF 11-JUL-2001; 2001US-00904011.
XX
PR 17-SEP-1997; 97US-0059113P.
PR 17-SEP-1997; 97US-0059115P.
PR 17-SEP-1997; 97US-0059117P.
PR 17-SEP-1997; 97US-0059119P.
PR 17-SEP-1997; 97US-0059121P.
PR 17-SEP-1997; 97US-0059122P.
PR 17-SEP-1997; 97US-0059184P.
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 15-OCT-1997; 97US-0062135P.
PR 17-OCT-1997; 97US-0062285P.
PR 17-OCT-1997; 97US-0062287P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0062816P.
PR 24-OCT-1997; 97US-0062816P.
PR 24-OCT-1997; 97US-0063045P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 24-OCT-1997; 97US-0063127P.
PR 24-OCT-1997; 97US-0063128P.
PR 27-OCT-1997; 97US-0063327P.
PR 27-OCT-1997; 97US-0063329P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063542P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063549P.
PR 28-OCT-1997; 97US-0063550P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063435P.
PR 29-OCT-1997; 97US-0063704P.
PR 29-OCT-1997; 97US-0063732P.
PR 29-OCT-1997; 97US-0063734P.
PR 29-OCT-1997; 97US-0063735P.
PR 29-OCT-1997; 97US-0063738P.
PR 29-OCT-1997; 97US-0064215P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 03-NOV-1997; 97US-0064248P.
PR 07-NOV-1997; 97US-0064809P.
PR 12-NOV-1997; 97US-0065186P.
PR 17-NOV-1997; 97US-0065846P.
PR 18-NOV-1997; 97US-0065693P.

21-NOV-1997; 97US-0066120P.
21-NOV-1997; 97US-0066364P.
24-NOV-1997; 97US-0066453P.
24-NOV-1997; 97US-0066466P.
24-NOV-1997; 97US-0066511P.
24-NOV-1997; 97US-0066770P.
24-NOV-1997; 97US-0066772P.
10-SEP-1998; 98WO-US018824.
14-SEP-1998; 98WO-US019177.
16-SEP-1998; 98WO-US019330.
17-SEP-1998; 98WO-US019437.
01-DEC-1998; 98WO-US025108.
08-SEP-1999; 99WO-US020594.
13-SEP-1999; 99WO-US020944.
15-SEP-1999; 99WO-US021090.
15-SEP-1999; 99WO-US021547.
05-OCT-1999; 99WO-US023089.
29-NOV-1999; 99WO-US028214.
30-NOV-1999; 99WO-US028313.
01-DEC-1999; 99WO-US028301.
02-DEC-1999; 99WO-US028564.
02-DEC-1999; 99WO-US028565.
16-DEC-1999; 99WO-US030095.
20-DEC-1999; 99WO-US030911.
20-DEC-1999; 99WO-US030999.
05-JAN-2000; 2000WO-US000219.
11-FEB-2000; 2000WO-US003565.
22-FEB-2000; 2000WO-US004414.
22-FEB-2000; 2000WO-US005004.
02-MAR-2000; 2000WO-US005841.
30-MAR-2000; 2000WO-US007377.
30-MAR-2000; 2000WO-US008439.
22-MAY-2000; 2000WO-US014042.
02-JUN-2000; 2000WO-US015264.
28-JUL-2000; 2000WO-US020710.
24-AUG-2000; 2000WO-US023328.
18-SEP-2000; 2000US-00665350.

(GETH ) GENENTECH INC.

Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
Flivaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IG;
Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
Williams PM, Wood WI;
WPI; 2003-329602/31.
P-FSDB; ABU71935.

New transmembrane polypeptides and nucleic acids encoding the
polypeptides, useful in gene therapy, in chromosome identification, as
chromosome markers, in generating probes and in tissue typing.

Claim 2; Fig 91; 484pp; English.

The invention relates to an isolated nucleic acid with at least 80%
nucleic acid sequence identity to a nucleotide sequence encoding one of
61 secreted/transmembrane polypeptides, or PRO polypeptides or encoding a
PRO protein extracellular domain. Also included are a vector comprising
the PRO nucleic acid, a host cell comprising the vector, producing a PRO
polypeptide (by culturing the host cell for the expression of the PRO
polypeptide, and recovering the PRO polypeptide from the cell culture),
an isolated PRO polypeptide (having at least 80% sequence identity to: (
a) an amino acid sequence selected from the 61 PRO proteins; (b) an amino
acid sequence encoded by a nucleic acid molecule deposited with an ATCC
number (detailed in the specification); or (c) an extracellular domain of
a PRO polypeptide or to a PRO polypeptide lacking its associated signal
peptide), a chimaeric molecule comprising a PRO polypeptide of fused to a
heterologous amino acid sequence, an anti-PRO antibody, detecting a
PRO245 or PRO1868 in a sample suspected of containing the polypeptide,
linking a bioactive molecule to a cell expressing a PRO245 or PRO1868 and
modulating at least one biological activity of a cell expressing a PRO245
or PRO1868. Nucleic acids which encode PRO can be used to generate either
```


transgenic animals or knock-out animals which may be used in the development and screening of therapeutically useful reagents. The nucleic acids may also be used in gene therapy, in chromosome identification, as chromosome markers, or in generating probes. The PRO polypeptides are useful as molecular markers for protein electrophoresis, and the isolated nucleic acids may be used for recombinantly expressing those markers. The PRO polypeptides and nucleic acids may also be used in tissue typing. Anti-PRO antibodies are useful in diagnostic assays for PRO, and in affinity purification of PRO from recombinant cell culture or natural sources. The present sequence encodes a PRO protein

SQ Sequence 1100 BP; 225 A; 321 C; 314 G; 240 T; 0 U; 0 Other;

Query March 99.1%; Score 1090.6; DB 8; Length 1100;
Best Local Similarity 99.6%; Pred. No. 4.4e-227;
Matches 1093; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

1 CGCGGAGAGGAGCCATGGCGCGCGCGCGCGCTGCTGCTGGCGCTGCTGGCTCG 60
Db 4 CGCGGAGAGGAGCCATGGCGCGCGCGCGCGCTGCTGCTGGCGCTGCTGGCTCG 63

61 GCGTGAATCAGGAGAGCGGAGTCCGAGAGCGCGCGCTTATCAGGACCATCGCGCG 120
Db 64 GCGTGAATCAGGAGAGCGGAGTCCGAGAGCGCGCGCTTATCAGGACCATCGCGCG 123

121 ACGGGTATACAGTCCGCGCATCGTGGTGGAGAGACCGCGAACTCGGGCGTTGGCGGTG 180
Db 124 ACGGGTATACAGTCCGCGCATCGTGGTGGAGAGACCGCGAACTCGGGCGTTGGCGGTG 183

181 GCAGGGAGCTGGCGCTGCGGATTCACGATGCGGAGTGGAGCTGCTCAGCCACCG 240
Db 184 GCAGGGAGCTGGCGCTGCGGATTCACGATGCGGAGTGGAGCTGCTCAGCCACCG 243

241 CTGGGCACTCAGCGCGCGCACTGCTTTGAAACCTATAGTGACCTTAGTGATCCCTCGG 300
Db 244 CTGGGCACTCAGCGCGCGCACTGCTTTGAAACCTATAGTGACCTTAGTGATCCCTCGG 303

301 GTGANTGTCCAGTTTGGCCAGCTGACTTCCATGCTTCTGGAGCTTGGAGGCTA 360
Db 304 GTGANTGTCCAGTTTGGCCAGCTGACTTCCATGCTTCTGGAGCTTGGAGGCTA 363

361 CTACACCGTTACTTGGTATCGATATCTATCTGAGCCCTCGCTACCTGGGGAATTCAC 420
Db 364 CTACACCGTTACTTGGTATCGATATCTATCTGAGCCCTCGCTACCTGGGGAATTCAC 423

421 CTATGACATTCGCTTGGTGAAGCTGTCTGACCTGTCTACCTACACTAAACATCCAGCC 480
Db 424 CTATGACATTCGCTTGGTGAAGCTGTCTGACCTGTCTACCTACACTAAACATCCAGCC 483

481 CATCTGTCTCAGGCTCCACATTTGAGTTTGAACCCGAGACAGCTGCTGGGTGACTGG 540
Db 484 CATCTGTCTCAGGCTCCACATTTGAGTTTGAACCCGAGACAGCTGCTGGGTGACTGG 543

541 CTGGGGTACATCAAGAGGATGGCACTCCATCTCCCACTCCCACTCCAGGAAGTTCA 600
Db 544 CTGGGGTACATCAAGAGGATGGCACTCCATCTCCCACTCCCACTCCAGGAAGTTCA 603

601 GGTGGCCATCAAAACAACTCTATGTGCAACCACTCTTCTCAAGTACAGTTTCGCGAA 660
Db 604 GGTGGCCATCAAAACAACTCTATGTGCAACCACTCTTCTCAAGTACAGTTTCGCGAA 663

661 GGAATCTTTGAGACATGTTTGTGGCAATGCCCAAGCGGGAGAGATGCTGCTT 720
Db 664 GGAATCTTTGAGACATGTTTGTGGCAATGCCCAAGCGGGAGAGATGCTGCTT 723

721 CGGTGACTCAGTGGACCTTGGCTGTAAACAGATGGAATGCTGATCAGATGGAGT 780
Db 724 CGGTGACTCAGTGGACCTTGGCTGTAAACAGATGGAATGCTGATCAGATGGAGT 783

781 CGTGAGCTGGGAGTGGGCTGTGGTGGCGCCAACTCGGGCCCGGTGTCTACCAATATCAG 840
Db 784 CGTGAGCTGGGAGTGGGCTGTGGTGGCGCCAACTCGGGCCCGGTGTCTACCAATATCAG 843

841 CCACCACTTTGAGTGGATCCAGAGCTGATGCGCCAGAGTGGCATGTCCAGCCAGACCC 900
Db 844 CCACCACTTTGAGTGGATCCAGAGCTGATGCGCCAGAGTGGCATGTCCAGCCAGACCC 903

901 CTCCTGGCGGCTACTCTTTTCCCTCTTCTCTGGGCTCTCCACCTCTCTGGGCGGCTCG 960
Db 904 CTCCTGGCGGCTACTCTTTTCCCTCTTCTCTGGGCTCTCCACCTCTCTGGGCGGCTCG 963

961 AGCTACTGAGCCATCGACGCTTGGGCGCACTGCCAAGTCAGGCCCTGTCTCTCTG 1020
Db 964 AGCTACTGAGCCATCGACGCTTGGGCGCACTGCCAAGTCAGGCCCTGTCTCTCTG.1023

1021 TCTTTTGGTAAATAACACATTCAGTTCAGTTCAGTTCAGGCGCATTTTCAAAAAAAA 1080
Db 1024 TCTTTTGGTAAATAACACATTCAGTTCAGTTCAGTTCAGGCGCATTTTCAAAAAAAA 1083

1081 AAAAAAAA 1097
Db 1084 AAAAAAAA 1100

RESULT 6
ACD07611
ID ACD07611 standard; cDNA; 1100 BP.
XX ACD07611;
AC ACD07611;
XX
DT 07-AUG-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO303 cDNA.
XX
KW Human; secreted and transmembrane protein; PRO; pharmaceutical;
diagnostic; biosensor; bioeffector; Parkinson's disease;
Alzheimer's disease; inflammation; nephritis; wound healing;
nerve repair; collateral blood vessel formation; cancer;
colorectal cancer; haemorrhage; rheumatoid arthritis; diabetes;
cirrhosis; fibrosis; restenosis; dermal fibrotic condition; keloid;
scarring; ischaemia; stroke; hypertension; heart attack; atherosclerosis;
infertility; gene therapy; gene; ss.
XX
OS Homo sapiens.
XX
PN US2002197671-A1.
XX
PD 26-DEC-2002.
XX
PF 17-JUL-2001; 2001US-00907824.
XX
PR 17-SEP-1997; 97US-0059113P.
PR 17-SEP-1997; 97US-0059115P.
PR 17-SEP-1997; 97US-0059117P.
PR 17-SEP-1997; 97US-0059119P.
PR 17-SEP-1997; 97US-0059121P.
PR 17-SEP-1997; 97US-0059122P.
PR 17-SEP-1997; 97US-0059184P.
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 15-OCT-1997; 97US-0062125P.
PR 17-OCT-1997; 97US-0062285P.
PR 17-OCT-1997; 97US-0062287P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0062814P.
PR 24-OCT-1997; 97US-0062816P.
PR 24-OCT-1997; 97US-0063045P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 24-OCT-1997; 97US-0063127P.
PR 24-OCT-1997; 97US-0063128P.
PR 27-OCT-1997; 97US-0063327P.
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PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063542P.
PR 28-OCT-1997; 97US-0063544P.

28-OCT-1997; 97US-0063549P.
28-OCT-1997; 97US-0063550P.
28-OCT-1997; 97US-0063564P.
29-OCT-1997; 97US-0063435P.
29-OCT-1997; 97US-0063704P.
29-OCT-1997; 97US-0063732P.
29-OCT-1997; 97US-0063734P.
29-OCT-1997; 97US-0063735P.
29-OCT-1997; 97US-0063738P.
29-OCT-1997; 97US-0064215P.
31-OCT-1997; 97US-0063870P.
31-OCT-1997; 97US-0064103P.
03-NOV-1997; 97US-0064248P.
07-NOV-1997; 97US-0064809P.
12-NOV-1997; 97US-0065186P.
17-NOV-1997; 97US-0065846P.
18-NOV-1997; 97US-0065693P.
21-NOV-1997; 97US-0066120P.
21-NOV-1997; 97US-0066364P.
24-NOV-1997; 97US-0066453P.
24-NOV-1997; 97US-0066466P.
24-NOV-1997; 97US-0066511P.
24-NOV-1997; 97US-0066770P.
24-NOV-1997; 97US-0066772P.
10-SEP-1998; 98WO-US018824.
14-SEP-1998; 98WO-US019177.
16-SEP-1998; 98WO-US019330.
17-SEP-1998; 98WO-US019437.
01-DEC-1998; 98WO-US025108.
08-SEP-1999; 99WO-US020594.
13-SEP-1999; 99WO-US020944.
15-SEP-1999; 99WO-US021090.
15-SEP-1999; 99WO-US021547.
05-OCT-1999; 99WO-US023089.
29-NOV-1999; 99WO-US028214.
30-NOV-1999; 99WO-US028313.
01-DEC-1999; 99WO-US028301.
02-DEC-1999; 99WO-US028564.
02-DEC-1999; 99WO-US028565.
16-DEC-1999; 99WO-US030095.
20-DEC-1999; 99WO-US030311.
20-DEC-1999; 99WO-US030999.
05-JAN-2000; 2000WO-US000219.
11-FEB-2000; 2000WO-US003565.
22-FEB-2000; 2000WO-US004414.
24-FEB-2000; 2000WO-US005004.
02-MAR-2000; 2000WO-US005841.
30-MAR-2000; 2000WO-US007377.
30-MAR-2000; 2000WO-US008439.
22-MAY-2000; 2000WO-US014042.
02-JUN-2000; 2000WO-US015264.
28-JUL-2000; 2000WO-US020710.
24-AUG-2000; 2000WO-US023328.
18-SEP-2000; 2000US-00865350.
(GETH) GENENTECH INC.
Ashkenazi A, Botstein D, Deasoyers L, Eaton DL, Ferrara N;
Piliavoff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
Godowski PJ, Grimaldi JC, Gurney AU, Hillan KJ, Kljavin IJ;
Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
Williams PM, Wood WI;
WPI; 2003-370793/35.
P-PSDB; ABO01818.
XX
DR
DR
XX
PT
PT
PT
PT
XX
PS
XX
New genes and secreted and transmembrane polypeptides (e.g. PRO245 or PRO335), useful for treating or diagnosing e.g. Alzheimer's disease, cancers, hemorrhage, rheumatoid arthritis, diabetes, cirrhosis, ischemia or strokes.
Claim 2; Fig 91; 482pp; English.

CC The invention describes a new isolated nucleic acid molecule comprising the full length coding sequence of the DNA deposited with the American Type Culture Collection (e.g. ATCC Deposit No. 209258) or a sequence with at least 80% identity to a DNA encoding a PRO polypeptide comprising any of 61 sequences having 164-1119 amino acids fully defined in the specification. The PRO polypeptides or polynucleotides are useful as pharmaceuticals, diagnostics, biosensors or bioreactors. These are particularly useful for detecting or treating e.g. Parkinson's disease, Alzheimer's disease, inflammations, nephritis, wound healing, nerve repair, collateral blood vessel formation, cancers (e.g. colorectal cancer), haemorrhage (or reduce risk for haemorrhage), rheumatoid arthritis, diabetes, cirrhosis of the liver, keloids or scarring), restenosis, dermal fibrotic conditions (e.g. keloids or scarring), ischaemia, strokes, hypertension, heart attacks, atherosclerosis, or infertility in mammals (e.g. humans, dogs, cats, cattle, horses, sheep, pigs, goats, or rabbits) The PRO polypeptides are useful as targets for therapeutic intervention in these diseases, and diagnostic determination of the presence of these diseases. The PRO polypeptides are also useful as molecular weight markers, or for chromosome identification. The PRO genes are useful as hybridisation probes, or for screening libraries of human cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene therapy, particularly for replacing a defective gene. This sequence CC encodes a novel human secreted and transmembrane PRO polypeptide
XX
SQ Sequence 1100 BP; 225 A; 321 C; 314 G; 240 T; 0 U; 0 Other;
Query Match 99.1%; Score 1090.6; DB 8; Length 1100;
Best Local Similarity 99.6%; Pred. No. 4.4e-227;
Matches 1093; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
Qy 1 CGCGGAGAGAGGCCATGGCGCGCGCGCGCGCGCGCGCTGCTCGCGCTGCTGGCTCG 60
Db 4 CGCGGAGAGAGGCCATGGCGCGCGCGCGCGCGCGCGCTGCTCGCGCTGCTGGCTCG 63
Qy 61 GGCTGACTCAGGAAGCCGAGTGCAGAGGCGCGCGCGCGCTTATCAGACCATGCGCGCG 120
Db 64 GGCTGACTCAGGAAGCCGAGTGCAGAGGCGCGCGCGCGCTTATCAGACCATGCGCGCG 123
Qy 121 ACGGGTCATCAGCTCGCGCATCGTGGTGAGAGAGCGCGAACTCGGGCGTTGGCGGTG 180
Db 124 ACGGGTCATCAGCTCGCGCATCGTGGTGAGAGAGCGCGAACTCGGGCGTTGGCGGTG 183
Qy 181 GCAGGGGAGCCTCGCGCTGTTGGGATTTCCACGATATGCGAGTGAGCTGCTCAGCCACCG 240
Db 184 GCAGGGGAGCCTCGCGCTGTTGGGATTTCCACGATATGCGAGTGAGCTGCTCAGCCACCG 243
Qy 241 CTGGGCACTCAGCGCGCGCGCACTGCTTTGAACTATAGTACCTTAGTATCCCTCCGG 300
Db 244 CTGGGCACTCAGCGCGCGCGCACTGCTTTGAACTATAGTACCTTAGTATCCCTCCGG 303
Qy 301 GTGGATGGTCCAGTTTGGCCAGCTGACTTCCATGCCATCTTCTGGAGCTCGAGGCCTA 360
Db 304 GTGGATGGTCCAGTTTGGCCAGCTGACTTCCATGCCATCTTCTGGAGCTCGAGGCCTA 363
Qy 361 CTACACCCGTTACTTCGTATCGAATATCTATCTGAGCCCTCGCTACCTTGGGGAATTCACC 420
Db 364 CTACACCCGTTACTTCGTATCGAATATCTATCTGAGCCCTCGCTACCTTGGGGAATTCACC 423
Qy 421 CTATGATATGCTTGGTGAGCTGTCTGACCTGTACCTACCTACATAACACATCAGGCC 480
Db 424 CTATGATATGCTTGGTGAGCTGTCTGACCTGTACCTACCTACATAACACATCAGGCC 483
Qy 481 CATCTGTCTCCAGCGCTCCACATTTGAGTTTGAACCGGAGACAGTGTCTGGGTGACTGG 540
Db 484 CATCTGTCTCCAGCGCTCCACATTTGAGTTTGAACCGGAGACAGTGTCTGGGTGACTGG 543
Qy 541 CTGGGGGTACATCAAGAGAGATGAGCACTGGCCATCTCCCCACACCTCCAGGAAGTTCA 600
Db 544 CTGGGGGTACATCAAGAGAGATGAGCACTGGCCATCTCCCCACACCTCCAGGAAGTTCA 603
Qy 601 GGTGCGCATCATAAACAACCTATATGTGCAACCACTTCTTCTCCTCAAGTACAGTTTCGCAA 660
Db 604 GGTGCGCATCATAAACAACCTATATGTGCAACCACTTCTTCTCCTCAAGTACAGTTTCGCAA 663

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QY 661 GGACATCTTTGGAGACATGGTTTGTGCTGGCAATGCCCAAGCGGGAAGGATGCTGCTT 720
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Db 664 GGACATCTTTGGAGACATGGTTTGTGCTGGCAAGCGCCCAAGCGGGAAGGATGCTGCTT 723
    |||||
QY 721 CGGTGACTCAGGTGACCTTGGCCCTGTAACAAGGATGGACTGTGGTATCAGATTGGAGT 780
    |||||
Db 724 CGGTGACTCAGGTGACCTTGGCCCTGTAACAAGGATGGACTGTGGTATCAGATTGGAGT 783
    |||||
QY 781 CGTGAGCTGGGAGTGGCTGTGGTGGCCCAATCGGCCCGCTGTCTACACCAATATCAG 840
    |||||
Db 784 CGTGAGCTGGGAGTGGCTGTGGTGGCCCAATCGGCCCGCTGTCTACACCAATATCAG 843
    |||||
QY 841 CCACCATTTGAGTGATCCAGAGCTGATGGCCCAAGTGGCATGTCCAGCCAGACCC 900
    |||||
Db 844 CCACCATTTGAGTGATCCAGAGCTGATGGCCCAAGTGGCATGTCCAGCCAGACCC 903
    |||||
QY 901 CTCCTGGCCGCTACTCTTTTCCCTCTCTCTGGGCTCTCCACTCTCGGGGCGGCTG 960
    |||||
Db 904 CTCCTGGCCGCTACTCTTTTCCCTCTCTCTGGGCTCTCCACTCTCGGGGCGGCTG 963
    |||||
QY 961 AGCTTACCTGAGCCCATCGAGCCTGGGCGCACTGCCAAGTCAGGCCCTGTCTCTCTG 1020
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Db 964 AGCTTACCTGAGCCCATCGAGCCTGGGCGCACTGCCAAGTCAGGCCCTGTCTCTCTG 1023
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QY 1021 TCTTGTGTTGTAATAACACATTCAGTTGATGCTTCGAGGGCATTTTCAAAAAAAA 1080
    |||||
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    |||||
QY 1081 AAAAAAAAAAAAAAAAAA 1097
    |||||
Db 1084 AAAAAAAAAAAAAAAAAA 1100
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RESULT 7
ABX71659
ID ABX71659 standard; cDNA; 1100 BP.
XX
AC ABX71659;
XX
XX
DT 10-MAR-2003 (first entry)
XX
DE Human cDNA encoding secreted/transmembrane protein PRO303.
XX
KW Human; PRO; secreted protein; transmembrane protein; enterocolitis;
KW gastrointestinal ulceration; skin disease; ss; gene;
KW abnormal keratinocyte differentiation; psoriasis; epithelial cancer;
KW squamous cell carcinoma; Alzheimer's disease; Parkinson's disease;
KW amyotrophic lateral sclerosis; inflammatory disease;
KW rheumatoid arthritis; asthma; multiple sclerosis; organ failure;
KW atherosclerosis; cardiac injury; infertility; birth defect;
KW premature aging; AIDS; acquired immunodeficiency syndrome; cancer;
KW diabetic complication; wound repair.
XX
OS Homo sapiens.
XX
XX
XX US2002132240-A1.
XX
XX
XX 19-SEP-2002.
XX
XX
XX 18-JUL-2001; 2001US-00909320.
XX
XX 17-SEP-1997; 97US-0059113P.
XX
XX 17-SEP-1997; 97US-0059115P.
XX
XX 17-SEP-1997; 97US-0059117P.
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XX 17-SEP-1997; 97US-0059119P.
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XX 17-SEP-1997; 97US-0059121P.
XX
XX 17-SEP-1997; 97US-0059122P.
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XX 17-SEP-1997; 97US-0059184P.
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XX 18-SEP-1997; 97US-0059263P.
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XX 18-SEP-1997; 97US-0059266P.
XX
XX 15-OCT-1997; 97US-0062125P.
XX
XX 17-OCT-1997; 97US-0062285P.
```

(GETH) GENENTECH INC.

PA Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
XX Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
PI

PR 17-OCT-1997; 97US-0062287P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0062814P.
PR 24-OCT-1997; 97US-0062816P.
PR 24-OCT-1997; 97US-0063045P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 24-OCT-1997; 97US-0063127P.
PR 24-OCT-1997; 97US-0063128P.
PR 27-OCT-1997; 97US-0063327P.
PR 27-OCT-1997; 97US-0063329P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063542P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063549P.
PR 28-OCT-1997; 97US-0063550P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063435P.
PR 29-OCT-1997; 97US-0063704P.
PR 29-OCT-1997; 97US-0063732P.
PR 29-OCT-1997; 97US-0063734P.
PR 29-OCT-1997; 97US-0063735P.
PR 29-OCT-1997; 97US-0063738P.
PR 29-OCT-1997; 97US-0064215P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 03-NOV-1997; 97US-0064248P.
PR 07-NOV-1997; 97US-0064809P.
PR 12-NOV-1997; 97US-0065186P.
PR 17-NOV-1997; 97US-0065846P.
PR 18-NOV-1997; 97US-0065633P.
PR 21-NOV-1997; 97US-0066120P.
PR 21-NOV-1997; 97US-0066364P.
PR 24-NOV-1997; 97US-0066453P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066511P.
PR 24-NOV-1997; 97US-0066770P.
PR 24-NOV-1997; 97US-0066772P.
PR 10-SEP-1998; 98WO-US018824.
PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 01-DEC-1998; 98WO-US025108.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 06-JAN-2000; 2000WO-US000219.
PR 11-FEB-2000; 2000WO-US003565.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00665350.

uncontrolled cell growth; cancer; blood coagulation cascade; thrombosis; haemorrhage; endometrial bleeding; angiogenesis; wound healing; tumour; tissue repair; rheumatoid arthritis; multiple sclerosis; tissue typing.

Hom sapiens.

US2003044839-A1.

06-MAR-2003.

10-JUL-2001; 2001US-00902903.

17-SEP-1997; 97US-0059113P.

17-SEP-1997; 97US-0059113P.

17-SEP-1997; 97US-0059117P.

17-SEP-1997; 97US-0059119P.

17-SEP-1997; 97US-0059121P.

17-SEP-1997; 97US-0059123P.

17-SEP-1997; 97US-0059184P.

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18-SEP-1997; 97US-0059266P.

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27-OCT-1997; 97US-0063327P.

27-OCT-1997; 97US-0063329P.

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28-OCT-1997; 97US-0063550P.

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29-OCT-1997; 97US-0063704P.

29-OCT-1997; 97US-0063732P.

29-OCT-1997; 97US-0063734P.

29-OCT-1997; 97US-0063735P.

29-OCT-1997; 97US-0063738P.

29-OCT-1997; 97US-0064215P.

31-OCT-1997; 97US-0063870P.

KW uncontrolled cell growth; cancer; blood coagulation cascade; thrombosis; haemorrhage; endometrial bleeding; angiogenesis; wound healing; tumour; tissue repair; rheumatoid arthritis; multiple sclerosis; tissue typing.

OS Hom sapiens.

XX US2003044839-A1.

XX 06-MAR-2003.

XX 10-JUL-2001; 2001US-00902903.

XX 17-SEP-1997; 97US-0059113P.

XX 17-SEP-1997; 97US-0059113P.

XX 17-SEP-1997; 97US-0059117P.

XX 17-SEP-1997; 97US-0059119P.

XX 17-SEP-1997; 97US-0059121P.

XX 17-SEP-1997; 97US-0059123P.

XX 17-SEP-1997; 97US-0059184P.

XX 18-SEP-1997; 97US-0059263P.

XX 18-SEP-1997; 97US-0059266P.

XX 15-OCT-1997; 97US-0062125P.

XX 17-OCT-1997; 97US-0062285P.

XX 17-OCT-1997; 97US-0062287P.

XX 21-OCT-1997; 97US-0063486P.

XX 24-OCT-1997; 97US-0062814P.

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XX 29-OCT-1997; 97US-0063735P.

XX 29-OCT-1997; 97US-0063738P.

XX 29-OCT-1997; 97US-0064215P.

XX 31-OCT-1997; 97US-0063870P.

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XX 03-NOV-1997; 97US-0064248P.

XX 07-NOV-1997; 97US-0064809P.

XX 12-NOV-1997; 97US-0065186P.

XX 17-NOV-1997; 97US-0065846P.

XX 18-NOV-1997; 97US-0065693P.

XX 21-NOV-1997; 97US-0066120P.

XX 21-NOV-1997; 97US-0066136P.

XX 24-NOV-1997; 97US-0066453P.

XX 24-NOV-1997; 97US-0066466P.

XX 24-NOV-1997; 97US-0066511P.

XX 24-NOV-1997; 97US-0066770P.

XX 24-NOV-1997; 97US-0066772P.

XX 25-NOV-1997; 97US-0066840P.

XX 12-DEC-1997; 97US-0069425P.

XX 04-JUN-1998; 98US-0088026P.

XX 10-SEP-1998; 98US-0098003P.

XX 10-SEP-1998; 98WO-US018844.

XX 14-SEP-1998; 98US-0100262P.

XX 14-SEP-1998; 98WO-US019177.

XX 16-SEP-1998; 98WO-US019330.

XX 17-SEP-1998; 98US-0100858P.

XX 17-SEP-1998; 98WO-US019437.

XX 13-OCT-1998; 98US-0104080P.

XX 20-NOV-1998; 98US-0109304P.

PR 01-DEC-1998; 98WO-US025108.
PR 22-DEC-1998; 98US-0113296P.
PR 07-JUL-1999; 99US-0143048P.
PR 26-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0146222P.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 05-JAN-2000; 2000WO-US000219.
PR 11-FEB-2000; 2000WO-US003565.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 02-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00665350.

(GETH) GENENTECH INC.

Ashkenazi A, Botstein D, Deenoyers L, Eaton DL, Ferrara N; Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A; Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ; Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D; Williams PM, Wood WI;

WPI; 2003-492259/46.

P-PSDB; ABO47406.

Novel secreted and transmembrane polypeptides and polynucleotides encoding them useful for treating abnormal bleeding involved in gynecological diseases, skin diseases and neurodegenerative diseases.

Claim 3; Fig 91; 478pp; English.

The invention relates to an isolated PRO polypeptide. PRO317 is useful in diagnosing or treating abnormal bleeding involved in gynecological diseases e.g. to avoid or lessen the need for hysterectomy. PRO317 may also be useful as an agent that affects angiogenesis and PRO317 is useful in anti-tumour indications or in treating coronary ischaemic conditions. PRO211 and PRO217 polypeptides are useful for treating disorders associated with the preservation and maintenance of gastrointestinal mucosa and the repair of acute and chronic mucosal lesions, skin diseases associated with abnormal keratinocyte differentiation (e.g. psoriasis). PRO187 polypeptide is useful for treating Parkinson's disease. Alzheimer's disease, amyotrophic lateral sclerosis (ALS), neuropathies and diseases related to uncontrolled cell growth, e.g. cancer. PRO219 polypeptide plays a regulatory role in the blood coagulation cascade. PRO246 polypeptides which serves as tumour specific antigens may be exploited as therapeutic targets for anti-tumour drugs. PRO269 polypeptide is useful as an antithrombotic agent with reduced risk for haemorrhage as compared with heparin. PRO317 polypeptide is useful in treating endometrial bleeding angiogenesis. PRO287 polypeptides and portion have therapeutic applications in wound healing and tissue repair. PRO234 polypeptides are useful for treating asthma, rheumatoid arthritis, psoriasis and multiple sclerosis. The polypeptide and its nucleic acid are useful for tissue typing. PRO antibodies are useful for immunohistochemical staining and/or assay of sample fluids. Anti-PRO antibodies are useful in diagnostic assays for PRO e.g. detecting its expression in specific cells, tissues or serum and for affinity

CC purification of PRO from recombinant cell culture or natural sources. The
CC present sequence represents cDNA encoding a human secreted/transmembrane
CC PRO polypeptide

SQ Sequence 1100 BP; 225 A; 321 C; 314 G; 240 T; 0 U; 0 Other;

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Query Match      99.1%; Score 1090.6; DB 8; Length 1100;
Best Local Similarity 99.6%; Pred. No. 4.4e-227;
Matches 1093; Conservative 0; Mismatches 4; Indels 0;
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Qy	1	CGCGGAGAGGAGCCATCGGCGCGCGCGGGCGCTGCTGTGCGCTGCTGTGCTGCTG	60
Db	4	CGCGGAGAGGAGGCGATCGGCGCGCGCGGGCGCTGCTGTGCGCTGCTGTGCTGCTG	63
Qy	61	GGCTGAGACTCAGGAAGCCGGAGTCCGACGAGGCGCGCGCTTATCAGGACCATGCGCGC	120
Db	64	GGCTGAGACTCAGGAAGCCGGAGTCCGAGGAGCGCGCGCTTATCAGGACCATGCGCGC	123
Qy	121	ACGGGTTCATCAGTCGCGCATCGTGGGTGGAGAGAGCGCCGAATCGGGCGTTGGCCGTG	180
Db	124	ACGGGTTCATCAGTCGCGCATCGTGGGTGGAGAGAGCGCCGAATCGGGCGTTGGCCGTG	183
Qy	181	GCAGGGAGCCCTGCGCCTGTGGATTCCACGTATGCGGAGTGAGCCTGCTCAGCCACCG	240
Db	184	GCAGGGAGCCCTGCGCCTGTGGATTCCACGTATGCGGAGTGAGCCTGCTCAGCCACCG	243
Qy	241	CTGGGCACTCAGGCGGCGCACTGCTTTGAAACCTATAGTAGCCTTAGTAGTCCCTCCGG	300
Db	244	CTGGGCACTCAGGCGGCGCACTGCTTTGAAACCTATAGTAGCCTTAGTAGTCCCTCCGG	303
Qy	301	GTGGATGTCTCAGTTTGGCCAGCTGACCTCCATGCCCATCTTCTGGAGCCTGCAAGCCTA	360
Db	304	GTGGATGTCTCAGTTTGGCCAGCTGACCTCCATGCCCATCTTCTGGAGCCTGCAAGCCTA	363
Qy	361	CTACACCCGTTACTTGGTATCGAATATCTATCTGAGCCCTCGCTACTGGGGAATTCACC	420
Db	364	CTACACCCGTTACTTGGTATCGAATATCTATCTGAGCCCTCGCTACTGGGGAATTCACC	423
Qy	421	CTATGACATTCGCTTGGTGAAGCTGTCTGACACCTGTCACTTAACACATATCCAGCC	480
Db	424	CTATGACATTCGCTTGGTGAAGCTGTCTGACACCTGTCACTTAACACATATCCAGCC	483
Qy	481	CATCTGTCTCCAGGCGCTCCACATTTGAGTTTGAGAACCGGACAGACTGCTGGGTGACTGG	540
Db	484	CATCTGTCTCCAGGCGCTCCACATTTGAGTTTGAGAACCGGACAGACTGCTGGGTGACTGG	543
Qy	541	CTGGGGGTTACATCAAGAGATGAGGCACTGCCATCTCCCAACACCTCCAGGAAGTTCA	600
Db	544	CTGGGGGTTACATCAAGAGATGAGGCACTGCCATCTCCCAACACCTCCAGGAAGTTCA	603
Qy	601	GGTCGCCATCAAAACAACCTCTATGTGCAACCACTCTTCTCAAGTACAGTTTCGCA	660
Db	604	GGTCGCCATCAAAACAACCTCTATGTGCAACCACTCTTCTCAAGTACAGTTTCGCA	663
Qy	661	GGACATCTTTGGAGACATGGTTTGTCTGGCAATGCCCAAGGCGGAAGATGCCCTGT	720
Db	664	GGACATCTTTGGAGACATGGTTTGTCTGGCAAGCCCAAGGCGGAAGATGCCCTGT	723
Qy	721	CGGTGACTCAGGTGAGCCCTTGGCCTGTGTAAACAGGATGGACTGTGGTATCAGATTGGAGT	780
Db	724	CGGTGACTCAGGTGAGCCCTTGGCCTGTGTAAACAGGATGGACTGTGGTATCAGATTGGAGT	783
Qy	781	CGTGTGAGCTGGGAGTGGGCTGTGTCGGCCCAATCGGCGCGGTGTCTACCCATATTCAG	840
Db	784	CGTGTGAGCTGGGAGTGGGCTGTGTCGGCCCAATCGGCGCGGTGTCTACCCATATTCAG	843
Qy	841	CCACCACTTTTGAATGGATCCAGAAAGCTGATGGCCAGATGGCATGTCCAGCCAGACCC	900
Db	844	CCACCACTTTTGAATGGATCCAGAAAGCTGATGGCCAGATGGCATGTCCAGCCAGACCC	903
Qy	901	CTCTCTGGCGGCTACTCTCTTTTTTCCCTCTTCTCTGGGCTCTCCCACTCTCTGGGGCGGCTGTG	960
Db	904	CTCTCTGGCGGCTACTCTCTTTTTTCCCTCTTCTCTGGGCTCTCCCACTCTCTGGGGCGGCTGTG	963

Qy	961	AGCCTACTGAGCCCATGCAAGCTGGGGCCACTGGCCAAAGTCAGGCCCTGTTCTCTTCTG	1026
Db	964	AGCCTACTGAGCCCATGCAAGCTGGGGCCACTGGCCAAAGTCAGGCCCTGTTCTCTTCTG	1023
Qy	1021	TCCTGTTTGGTAATAAACACATTCACGTTTCATGCTTGCAGGGCATTTTTCAAAAAAAA	1080
Db	1024	TCCTGTTTGGTAATAAACACATTCACGTTTCATGCTTGCAGGGCATTTCTTCAAAAAAAA	1083
Qy	1081	AAAAAAAAAAAAAAAAAAAA 1097	
Db	1084	AAAAAAAAAAAAAAAAAAAA 1100	
RESULT 9			
ABX96228			
ID	ABX96228	standard; cDNA; 1100 BP.	
XX			
AC	ABX96228;		
XX			
DT	13-MAY-2003	(first entry)	
XX			
DE	Human secreted/transmembrane protein CDNA, #47.		
XX			
KW	Human; gene; ss; PRO; secreted; transmembrane; pharmaceutical;		
KW	diagnostic; biosensor; biofactor; therapeutic; hyperplasia;		
KW	endometriosis; cancer; tumour; ischaemia; coronary arterial disease;		
KW	polycystic kidney disease; renal failure; inflammatory response; asthma;		
KW	rheumatoid arthritis; psoriasis; multiple sclerosis; gene therapy;		
KW	cytostatic; gynecological; cardiac; nephrotropic; hepatotropic;		
KW	antiinflammatory.		
XX			
OS	Homo sapiens.		
XX			
PN	US2002160374-A1.		
XX			
PD	31-OCT-2002.		
XX			
PF	12-JUL-2001; 2001US-00905291.		
XX			
PR	17-SEP-1997; 97US-0059113P.		
PR	17-SEP-1997; 97US-0059115P.		
PR	17-SEP-1997; 97US-0059117P.		
PR	17-SEP-1997; 97US-0059119P.		
PR	17-SEP-1997; 97US-0059121P.		
PR	17-SEP-1997; 97US-0059122P.		
PR	18-SEP-1997; 97US-0059184P.		
PR	18-SEP-1997; 97US-0059263P.		
PR	18-SEP-1997; 97US-0059266P.		
PR	15-OCT-1997; 97US-0062125P.		
PR	17-OCT-1997; 97US-0062285P.		
PR	17-OCT-1997; 97US-0062287P.		
PR	21-OCT-1997; 97US-0063486P.		
PR	24-OCT-1997; 97US-0062814P.		
PR	24-OCT-1997; 97US-0062816P.		
PR	24-OCT-1997; 97US-0063045P.		
PR	24-OCT-1997; 97US-0063120P.		
PR	24-OCT-1997; 97US-0063121P.		
PR	24-OCT-1997; 97US-0063127P.		
PR	24-OCT-1997; 97US-0063128P.		
PR	27-OCT-1997; 97US-0063327P.		
PR	27-OCT-1997; 97US-0063329P.		
PR	28-OCT-1997; 97US-0063541P.		
PR	28-OCT-1997; 97US-0063542P.		
PR	28-OCT-1997; 97US-0063544P.		
PR	28-OCT-1997; 97US-0063549P.		
PR	28-OCT-1997; 97US-0063550P.		
PR	28-OCT-1997; 97US-0063564P.		
PR	23-OCT-1997; 97US-0063435P.		
PR	23-OCT-1997; 97US-0063704P.		
PR	23-OCT-1997; 97US-0063732P.		
PR	23-OCT-1997; 97US-0063734P.		
PR	23-OCT-1997; 97US-0063735P.		

QY 901 CTCCTGGCCGCTACTCTTTTCCCTCTTCTCTGGGCTCTCCACTCTCCGCGCGGCTG 960
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 Db 904 CTCCTGGCCGCTACTCTTTTCCCTCTTCTCTGGGCTCTCCACTCTCCGCGCGGCTG 963
 |||||
 QY 961 AGCCTACTGAGCCATCAGCTGGGGCCACTGCGCAAGTCAAGCTGCTCTCTCTG 1020
 |||||
 Db 964 AGCCTACTGAGCCATCAGCTGGGGCCACTGCGCAAGTCAAGCTGCTCTCTCTG 1023
 |||||
 QY 1021 TCTTCTTTGGTAATAACACATTCAGTTGATGCTTCAGGGCATTTTCAAAAAAAA 1080
 |||||
 Db 1024 TCTTCTTTGGTAATAACACATTCAGTTGATGCTTCAGGGCATTTTCAAAAAAAA 1083
 |||||
 QY 1081 AAAAAA1097
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 Db 1084 AAAAAA1100

RESULT 10
 ACA05549
 ID ACA05549 standard; cDNA; 1100 BP.
 AC ACA05549;
 XX
 DT 29-MAY-2003 (first entry)
 DE cDNA encoding human secreted protein PRO303.
 KW Human; gene therapy; mucosal lesion; ulcer; enterocolitis; skin disease;
 KW psoriasis; cancer; lung cancer; colon cancer; nerve cell disease;
 KW Alzheimer's disease; Parkinson's disease; Usher syndrome; angiogenesis;
 KW atrophla areata; inflammatory disease; asthma; rheumatoid arthritis;
 KW ischaemia; ss; gene.
 XX
 OS Homo sapiens.
 XX
 FN US2003023054-A1.
 XX
 PD 30-JAN-2003.
 XX
 PF 16-JUL-2001; 2001US-00906742.
 XX
 PR 17-SEP-1997; 97US-0059113P.
 PR 17-SEP-1997; 97US-0059115P.
 PR 17-SEP-1997; 97US-0059117P.
 PR 17-SEP-1997; 97US-0059119P.
 PR 17-SEP-1997; 97US-0059121P.
 PR 17-SEP-1997; 97US-0059122P.
 PR 17-SEP-1997; 97US-0059184P.
 PR 18-SEP-1997; 97US-0059263P.
 PR 18-SEP-1997; 97US-0059266P.
 PR 15-OCT-1997; 97US-0062125P.
 PR 17-OCT-1997; 97US-0062285P.
 PR 21-OCT-1997; 97US-0062287P.
 PR 21-OCT-1997; 97US-0063486P.
 PR 24-OCT-1997; 97US-0062814P.
 PR 24-OCT-1997; 97US-0062816P.
 PR 24-OCT-1997; 97US-0063045P.
 PR 24-OCT-1997; 97US-0063120P.
 PR 24-OCT-1997; 97US-0063121P.
 PR 24-OCT-1997; 97US-0063127P.
 PR 27-OCT-1997; 97US-0063327P.
 PR 27-OCT-1997; 97US-0063329P.
 PR 28-OCT-1997; 97US-0063541P.
 PR 28-OCT-1997; 97US-0063542P.
 PR 28-OCT-1997; 97US-0063544P.
 PR 28-OCT-1997; 97US-0063549P.
 PR 28-OCT-1997; 97US-0063550P.
 PR 28-OCT-1997; 97US-0063564P.
 PR 29-OCT-1997; 97US-0063435P.
 PR 29-OCT-1997; 97US-0063704P.
 PR 29-OCT-1997; 97US-0063732P.

PR 29-OCT-1997; 97US-0063734P.
 PR 29-OCT-1997; 97US-0063735P.
 PR 29-OCT-1997; 97US-0063738P.
 PR 29-OCT-1997; 97US-0064215P.
 PR 31-OCT-1997; 97US-0063870P.
 PR 31-OCT-1997; 97US-0064103P.
 PR 03-NOV-1997; 97US-0064248P.
 PR 07-NOV-1997; 97US-0064809P.
 PR 12-NOV-1997; 97US-0065186P.
 PR 17-NOV-1997; 97US-0065846P.
 PR 18-NOV-1997; 97US-0065893P.
 PR 21-NOV-1997; 97US-0066120P.
 PR 21-NOV-1997; 97US-0066364P.
 PR 24-NOV-1997; 97US-0066453P.
 PR 24-NOV-1997; 97US-0066466P.
 PR 24-NOV-1997; 97US-0066511P.
 PR 24-NOV-1997; 97US-0066770P.
 PR 24-NOV-1997; 97US-0066772P.
 PR 25-NOV-1997; 97US-0066840P.
 PR 12-DEC-1997; 97US-0069425P.
 PR 04-JUN-1998; 98US-0088026P.
 PR 10-SEP-1998; 98US-009803P.
 PR 10-SEP-1998; 98WO-US018824.
 PR 14-SEP-1998; 98US-0100262P.
 PR 14-SEP-1998; 98WO-US019177.
 PR 16-SEP-1998; 98US-0100858P.
 PR 17-SEP-1998; 98WO-US019330.
 PR 17-SEP-1998; 98WO-US019437.
 PR 13-OCT-1998; 98US-0104080P.
 PR 20-NOV-1998; 98US-0109304P.
 PR 01-DEC-1998; 98WO-US025108.
 PR 22-DEC-1998; 98US-0113296P.
 PR 07-JUL-1999; 99US-0143048P.
 PR 26-JUL-1999; 99US-0145698P.
 PR 28-JUL-1999; 99US-0146222P.
 PR 08-SEP-1999; 99WO-US020594.
 PR 13-SEP-1999; 99WO-US020944.
 PR 15-SEP-1999; 99WO-US021090.
 PR 15-SEP-1999; 99WO-US021547.
 PR 05-OCT-1999; 99WO-US023089.
 PR 23-NOV-1999; 99WO-US028214.
 PR 30-NOV-1999; 99WO-US028313.
 PR 01-DEC-1999; 99WO-US028301.
 PR 02-DEC-1999; 99WO-US028564.
 PR 02-DEC-1999; 99WO-US028565.
 PR 16-DEC-1999; 99WO-US030095.
 PR 20-DEC-1999; 99WO-US030911.
 PR 20-DEC-1999; 99WO-US030999.
 PR 05-JAN-2000; 2000WO-US000219.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 22-FEB-2000; 2000WO-US004414.
 PR 24-FEB-2000; 2000WO-US005004.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 20-MAR-2000; 2000WO-US007377.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 18-SEP-2000; 2000US-00665350.
 XX
 PA (GETH) GENENTECH INC.

Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
 Filvaroff E, Fong S, Gerber H, Gerritsen ME, Goddard A;
 Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
 Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
 Williams PM, Wood WI;
 WFI; 2003-331485/31.
 P-PSDB; ABU67389.

Sixty one isolated nucleic acids encoding a PRO polypeptide, e.g. PRO245


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Qy 241 CTGGGCACTCAGCGGGGCGACTGCTTTGAAACCTATAGTACCTTAGTGATCCCTCGG 300
Db 244 CTGGGCACTCAGCGGGGCGACTGCTTTGAAACCTATAGTACCTTAGTGATCCCTCGG 303
Qy 301 GTGATGTCTCAGTTTGGCCAGCTGACTTCCATGCCATCTTCTGGAGCCTGACAGGCTTA 360
Db 304 GTGATGTCTCAGTTTGGCCAGCTGACTTCCATGCCATCTTCTGGAGCCTGACAGGCTTA 363
Qy 361 CTACACCGTTPACTTCGTATCGAATATATCTATCTGAGCCCTCGTACCTGGGGAATTCACC 420
Db 364 CTACACCGTTPACTTCGTATCGAATATCTATCTGAGCCCTCGTACCTGGGGAATTCACC 423
Qy 421 CTATGACATTCCTTGTGTGAGCTGCTGACCTGTCACTACATAAACATCCAGCC 480
Db 424 CTATGACATTCCTTGTGTGAGCTGCTGACCTGTCACTACATAAACATCCAGCC 483
Qy 481 CATCTGTCTCCAGGCTCCACATTTAGTTTGAAGACCGGACAGACTGCTGGGTGACTGG 540
Db 484 CATCTGTCTCCAGGCTCCACATTTAGTTTGAAGACCGGACAGACTGCTGGGTGACTGG 543
Qy 541 CTGGGGGTACATCAAGAGGATGAGGCACTGCCATCTCTCCACACCCCTCCAGGAAGTTCA 600
Db 544 CTGGGGGTACATCAAGAGGATGAGGCACTGCCATCTCTCCACACCCCTCCAGGAAGTTCA 603
Qy 601 GGTGCGCATATAAACAACCTCTATGTGCAACCACTCTTCTCAAGTACAGTTTCCGCA 660
Db 604 GGTGCGCATATAAACAACCTCTATGTGCAACCACTCTTCTCAAGTACAGTTTCCGCA 663
Qy 661 GGACATCTTTGGAGACATGTTTGTGTGCGCAATGCCCCAAGCGGGAAGATGCTCTGTT 720
Db 664 GGACATCTTTGGAGACATGTTTGTGTGCGCAATGCCCCAAGCGGGAAGATGCTCTGTT 723
Qy 721 CGGTGACTCAGGTGGACCTTTGGCTGTATCAAGGATGGAATGCTGTATCAGATTGGAGT 780
Db 724 CGGTGACTCAGGTGGACCTTTGGCTGTATCAAGGATGGAATGCTGTATCAGATTGGAGT 783
Qy 781 CGTGAGCTGGGAGTGGGCTGTGTGGCCCAATCGGCCCGGCTGTATACCAATATCAG 840
Db 784 CGTGAGCTGGGAGTGGGCTGTGTGGCCCAATCGGCCCGGCTGTATACCAATATCAG 843
Qy 841 CCACCACTTTGAGTGATCCAGAGCTGATGCCCCAGAGTGGCATGCCCCAGCCAGACCC 900
Db 844 CCACCACTTTGAGTGATCCAGAGCTGATGCCCCAGAGTGGCATGCCCCAGCCAGACCC 903
Qy 901 CTCCTGGCCGCTACTCTTTTCCCTCTTCTGCGCTCTCCACTCTCGGGGCGGCTG 960
Db 904 CTCCTGGCCGCTACTCTTTTCCCTCTTCTGCGCTCTCCACTCTCGGGGCGGCTG 963
Qy 961 AGCTTACCTGAGCCCATGACGCTGGGCCCATCTGCCAAGTCAAGCCCTGTCTCTCTG 1020
Db 964 AGCTTACCTGAGCCCATGACGCTGGGCCCATCTGCCAAGTCAAGCCCTGTCTCTCTG 1023
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Db 1024 TCTTGTGTTGTAATAACACATTCAGTTGATGCTTGCAGGCGATTTTCAAAAAAAA 1083
Qy 1081 AAAAAAAAAAAAAA 1097
Db 1084 AAAAAAAAAAAAAA 1100
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RESULT 12

ACA55019

ID ACA55019 standard; cDNA; 1100 BP.

XX ACA55019;

XX ACA55019;

DT 05-JUN-2003 (first entry)

DE Novel human secreted and transmembrane protein PRO303 cDNA.

XX Human; secreted and transmembrane protein; gene therapy; psoriasis;
KW Human; secreted and transmembrane protein; gene therapy; psoriasis;
KW enterocolitis; gastrointestinal ulceration; skin disease;

KW keratinocyte differentiation; epithelial cancer; Alzheimer's disease;
KW squamous cell carcinoma; Parkinson's disease; inflammatory disease;
KW amyotrophic lateral sclerosis; rheumatoid arthritis; asthma;
KW multiple sclerosis; organ failure; atherosclerosis; cardiac injury;
KW infertility; birth defect; premature aging; AIDS; cancer;
KW diabetic complication; wound repair; tissue re-growth; gene; ss.
XX Homo sapiens.

OS Homo sapiens.

XX US2003017463-A1.

XX 23-JAN-2003.

PD 23-JAN-2003.

XX 11-JUL-2001; 2001US-00903640.

PF 17-SEP-1997; 97US-0059113P.

XX 17-SEP-1997; 97US-0059115P.

PR 17-SEP-1997; 97US-0059117P.

PR 17-SEP-1997; 97US-0059119P.

PR 17-SEP-1997; 97US-0059121P.

PR 17-SEP-1997; 97US-0059122P.

PR 17-SEP-1997; 97US-0059184P.

PR 18-SEP-1997; 97US-0059263P.

PR 18-SEP-1997; 97US-0059266P.

PR 15-OCT-1997; 97US-0062125P.

PR 17-OCT-1997; 97US-0062285P.

PR 17-OCT-1997; 97US-0062287P.

PR 21-OCT-1997; 97US-0063486P.

PR 24-OCT-1997; 97US-0062814P.

PR 24-OCT-1997; 97US-0062816P.

PR 24-OCT-1997; 97US-0063045P.

PR 24-OCT-1997; 97US-0063120P.

PR 24-OCT-1997; 97US-0063121P.

PR 24-OCT-1997; 97US-0063127P.

PR 27-OCT-1997; 97US-0063128P.

PR 27-OCT-1997; 97US-0063327P.

PR 27-OCT-1997; 97US-0063329P.

PR 28-OCT-1997; 97US-0063541P.

PR 28-OCT-1997; 97US-0063542P.

PR 28-OCT-1997; 97US-0063544P.

PR 28-OCT-1997; 97US-0063549P.

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PR 28-OCT-1997; 97US-0063564P.

PR 29-OCT-1997; 97US-0063704P.

PR 29-OCT-1997; 97US-0063732P.

PR 29-OCT-1997; 97US-0063734P.

PR 29-OCT-1997; 97US-0063735P.

PR 29-OCT-1997; 97US-0063738P.

PR 29-OCT-1997; 97US-0064215P.

PR 31-OCT-1997; 97US-0063870P.

PR 31-OCT-1997; 97US-0064103P.

PR 03-NOV-1997; 97US-0064248P.

PR 07-NOV-1997; 97US-0064809P.

PR 12-NOV-1997; 97US-0065186P.

PR 17-NOV-1997; 97US-0065846P.

PR 18-NOV-1997; 97US-0065933P.

PR 21-NOV-1997; 97US-0066120P.

PR 21-NOV-1997; 97US-0066364P.

PR 24-NOV-1997; 97US-0066453P.

PR 24-NOV-1997; 97US-0066466P.

PR 24-NOV-1997; 97US-0066511P.

PR 24-NOV-1997; 97US-0066770P.

PR 25-NOV-1997; 97US-0066772P.

PR 25-NOV-1997; 97US-0066840P.

PR 12-DEC-1997; 97US-0069425P.

PR 04-JUN-1998; 98US-0088026P.

PR 10-SEP-1998; 98US-0099803P.

PR 10-SEP-1998; 98WO-US018824.

PR 14-SEP-1998; 98US-0100262P.

PR 14-SEP-1998; 98WO-US019177.

PR 16-SEP-1998; 98WO-US019330.

PR 17-SEP-1998; 98US-0100858P.

Db 1024 TCTGTTGGTAATAACACATCCAGTTGATGCTTCAGGGCAATTTCTCAAAAAAAAA 1083
QY 1081 AAAAAAAAAAAAAA 1097
Db 1084 AAAAAAAAAAAAAA 1100
RESULT 13
ID ACD19854 standard; cDNA; 1100 BP.
AC ACD19854;
XX
DT 22-AUG-2003 (first entry)
XX
DE Human secreted / transmembrane polypeptide PRO303 cDNA.
XX
KW Human; ss; gene; gene therapy; apoptosis; bleeding; tumour; ALS;
KW gynaecological disease; hysterectomy; angiogenesis; skin disease; cancer;
KW coronary ischaemic condition; gastrointestinal mucosa disorder; asthma;
KW mucosal lesion repair; keratinocyte differentiation; psoriasis;
KW Parkinson's disease; Alzheimer's disease; amyotrophic lateral sclerosis;
KW neuropathy; blood coagulation cascade disorder; thrombosis; haemorrhage;
KW neurodegenerative disease; endometrial bleeding; wound healing; tissue repair; rheumatoid arthritis; multiple sclerosis; tissue typing.
XX
OS Homo sapiens.
XX
FN US2003027143-A1.
XX
PD 06-FEB-2003.
XX
PF 16-JUL-2001; 2001US-00906838.
XX
PR 17-SEP-1997; 97US-0059113P.
PR 17-SEP-1997; 97US-0059113P.
PR 17-SEP-1997; 97US-0059117P.
PR 17-SEP-1997; 97US-0059119P.
PR 17-SEP-1997; 97US-0059121P.
PR 17-SEP-1997; 97US-0059122P.
PR 17-SEP-1997; 97US-0059184P.
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 15-OCT-1997; 97US-0062125P.
PR 17-OCT-1997; 97US-0062285P.
PR 17-OCT-1997; 97US-0062287P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0062814P.
PR 24-OCT-1997; 97US-0062816P.
PR 24-OCT-1997; 97US-0063045P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 24-OCT-1997; 97US-0063127P.
PR 24-OCT-1997; 97US-0063128P.
PR 27-OCT-1997; 97US-0063327P.
PR 27-OCT-1997; 97US-0063329P.
PR 28-OCT-1997; 97US-0063354P.
PR 28-OCT-1997; 97US-0063542P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063549P.
PR 28-OCT-1997; 97US-0063550P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063435P.
PR 29-OCT-1997; 97US-0063704P.
PR 29-OCT-1997; 97US-0063732P.
PR 29-OCT-1997; 97US-0063734P.
PR 29-OCT-1997; 97US-0063735P.
PR 29-OCT-1997; 97US-0063738P.
PR 31-OCT-1997; 97US-0064215P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 03-NOV-1997; 97US-0064248P.
PR 07-NOV-1997; 97US-0064809P.
1024 TCTGTTGGTAATAACACATCCAGTTGATGCTTCAGGGCAATTTCTCAAAAAAAAA 1083
1081 AAAAAAAAAAAAAA 1097
1084 AAAAAAAAAAAAAA 1100
ACD19854 standard; cDNA; 1100 BP.
ACD19854;
22-AUG-2003 (first entry)
Human secreted / transmembrane polypeptide PRO303 cDNA.
Human; ss; gene; gene therapy; apoptosis; bleeding; tumour; ALS;
gynaecological disease; hysterectomy; angiogenesis; skin disease; cancer;
coronary ischaemic condition; gastrointestinal mucosa disorder; asthma;
mucosal lesion repair; keratinocyte differentiation; psoriasis;
Parkinson's disease; Alzheimer's disease; amyotrophic lateral sclerosis;
neuropathy; blood coagulation cascade disorder; thrombosis; haemorrhage;
neurodegenerative disease; endometrial bleeding; wound healing; tissue repair; rheumatoid arthritis; multiple sclerosis; tissue typing.
Homo sapiens.
US2003027143-A1.
06-FEB-2003.
16-JUL-2001; 2001US-00906838.
17-SEP-1997; 97US-0059113P.
17-SEP-1997; 97US-0059113P.
17-SEP-1997; 97US-0059117P.
17-SEP-1997; 97US-0059119P.
17-SEP-1997; 97US-0059121P.
17-SEP-1997; 97US-0059122P.
17-SEP-1997; 97US-0059184P.
18-SEP-1997; 97US-0059263P.
18-SEP-1997; 97US-0059266P.
15-OCT-1997; 97US-0062125P.
17-OCT-1997; 97US-0062285P.
17-OCT-1997; 97US-0062287P.
21-OCT-1997; 97US-0063486P.
24-OCT-1997; 97US-0062814P.
24-OCT-1997; 97US-0062816P.
24-OCT-1997; 97US-0063045P.
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27-OCT-1997; 97US-0063329P.
28-OCT-1997; 97US-0063541P.
28-OCT-1997; 97US-0063542P.
28-OCT-1997; 97US-0063544P.
28-OCT-1997; 97US-0063549P.
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28-OCT-1997; 97US-0063564P.
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29-OCT-1997; 97US-0063732P.
29-OCT-1997; 97US-0063734P.
29-OCT-1997; 97US-0063735P.
29-OCT-1997; 97US-0063738P.
31-OCT-1997; 97US-0064215P.
31-OCT-1997; 97US-0063870P.
31-OCT-1997; 97US-0064103P.
03-NOV-1997; 97US-0064248P.
07-NOV-1997; 97US-0064809P.

PR 12-NOV-1997; 97US-0065186P.
PR 17-NOV-1997; 97US-0065846P.
PR 18-NOV-1997; 97US-0065933P.
PR 21-NOV-1997; 97US-0066120P.
PR 21-NOV-1997; 97US-0066364P.
PR 24-NOV-1997; 97US-0066453P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066511P.
PR 24-NOV-1997; 97US-0066770P.
PR 24-NOV-1997; 97US-0066772P.
PR 25-NOV-1997; 97US-0066840P.
PR 12-DEC-1997; 97US-0069425P.
PR 04-JUN-1998; 98US-0088026P.
PR 10-SEP-1998; 98US-0099803P.
PR 10-SEP-1998; 98US-0099803P.
PR 14-SEP-1998; 98US-0100262P.
PR 14-SEP-1998; 98US-0100262P.
PR 16-SEP-1998; 98US-0100262P.
PR 17-SEP-1998; 98US-0100858P.
PR 17-SEP-1998; 98US-0100858P.
PR 13-OCT-1998; 98US-0104080P.
PR 20-NOV-1998; 98US-0109304P.
PR 01-DEC-1998; 98US-0109304P.
PR 22-DEC-1998; 98US-0113296P.
PR 07-JUL-1999; 99US-0143048P.
PR 26-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0146222P.
PR 08-SEP-1999; 99US-0146222P.
PR 13-SEP-1999; 99US-0146222P.
PR 15-SEP-1999; 99US-0146222P.
PR 15-SEP-1999; 99US-0146222P.
PR 05-OCT-1999; 99US-0146222P.
PR 29-NOV-1999; 99US-0146222P.
PR 30-NOV-1999; 99US-0146222P.
PR 01-DEC-1999; 99US-0146222P.
PR 02-DEC-1999; 99US-0146222P.
PR 02-DEC-1999; 99US-0146222P.
PR 16-DEC-1999; 99US-0146222P.
PR 20-DEC-1999; 99US-0146222P.
PR 20-DEC-1999; 99US-0146222P.
PR 05-JAN-2000; 2000US-0000219.
PR 11-FEB-2000; 2000US-0000355.
PR 22-FEB-2000; 2000US-0000414.
PR 24-FEB-2000; 2000US-0000504.
PR 02-MAR-2000; 2000US-0000581.
PR 20-MAR-2000; 2000US-0000737.
PR 30-MAR-2000; 2000US-0000843.
PR 22-MAY-2000; 2000US-0001404.
PR 02-JUN-2000; 2000US-0001526.
PR 28-JUL-2000; 2000US-0002071.
PR 24-AUG-2000; 2000US-0002332.
PR 18-SEP-2000; 2000US-00065350.
(GETH) GENENTECH INC.

XX Ashkenazi A, Botstein D, Desnovers L, Eaton DL, Ferrara N;
XX Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
XX Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;
XX Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
XX Williams PM, Wood WI;
XX WPI; 2003-417249/39.
XX P-PSDB; ABO14848.
XX
XX Novel secreted and transmembrane polypeptides and polynucleotides
XX encoding them useful for treating abnormal bleeding involved in
XX gynecological diseases, skin diseases and neurodegenerative diseases.
XX Claim 2; Fig 91; 467pp; English.
XX
XX The invention relates to an isolated secreted and transmembrane PRO
XX polypeptide. The PRO polypeptides are useful for modulating biological
XX activity of a cell, in diagnosing or treating abnormal bleeding involved

in gynaecological diseases e.g. to avoid or lessen the need for hysterectomy, for treating angiogenesis, tumour, coronary ischaemic condition, disorders associated with the preservation and maintenance of gastrointestinal mucosa and the repair of acute and chronic mucosal lesions, skin diseases associated with abnormal keratinocyte differentiation (e.g. psoriasis), Parkinson's disease, Alzheimer's disease, amyotrophic lateral sclerosis (ALS), neuropathies, disease related to uncontrolled cell growth (e.g. cancer), blood coagulation cascade disorders, neurodegenerative disease, thrombosis, haemorrhage, endometrial bleeding, wound healing, tissue repair, asthma, rheumatoid arthritis, multiple sclerosis. Nucleic acid encoding PRO polypeptides are useful in molecular biology including uses as hybridisation probes and in the generation of antisense RNA and DNA, for preparing PRO polypeptides, for generating transgenic animals or knockout animals. The PRO polypeptides and their nucleic acids are useful for tissue typing. PRO antibodies are useful for immunohistochemical staining and/or assay of sample fluids. Anti-PRO antibodies are useful in diagnostic assays for PRO e.g. detecting its expression in specific cells, tissues or serum and for affinity purification of PRO from recombinant cell culture or natural sources. The present sequence represents cDNA encoding a human secreted and transmembrane PRO polypeptide

Sequence 1100 BP; 225 A; 321 C; 314 G; 240 T; 0 U; 0 Other;

Query Match 99.1%; Score 1090.6; DB 9; Length 1100;

Best Local Similarity 99.68: pred. No. 4.4e-227:

Best local similarity 55.0%, Ered. NO: 4.4E-227,
Matches 1093; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

[illegible]

PR 24-OCT-1997; 97US-0062816P.
 PR 24-OCT-1997; 97US-0063045P.
 PR 24-OCT-1997; 97US-0063120P.
 PR 24-OCT-1997; 97US-0063121P.
 PR 24-OCT-1997; 97US-0063127P.
 PR 24-OCT-1997; 97US-0063128P.
 PR 27-OCT-1997; 97US-0063327P.
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 PR 28-OCT-1997; 97US-0063541P.
 PR 28-OCT-1997; 97US-0063542P.
 PR 28-OCT-1997; 97US-0063544P.
 PR 28-OCT-1997; 97US-0063549P.
 PR 28-OCT-1997; 97US-0063550P.
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 PR 29-OCT-1997; 97US-0063435P.
 PR 29-OCT-1997; 97US-0063704P.
 PR 29-OCT-1997; 97US-0063732P.
 PR 29-OCT-1997; 97US-0063734P.
 PR 29-OCT-1997; 97US-0063735P.
 PR 29-OCT-1997; 97US-0063738P.
 PR 31-OCT-1997; 97US-0064215P.
 PR 31-OCT-1997; 97US-0063870P.
 PR 31-OCT-1997; 97US-0064103P.
 PR 03-NOV-1997; 97US-0064248P.
 PR 07-NOV-1997; 97US-0064809P.
 PR 12-NOV-1997; 97US-0065186P.
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 PR 18-NOV-1997; 97US-0065693P.
 PR 21-NOV-1997; 97US-0066120P.
 PR 21-NOV-1997; 97US-0066364P.
 PR 24-NOV-1997; 97US-0066453P.
 PR 24-NOV-1997; 97US-0066466P.
 PR 24-NOV-1997; 97US-0066511P.
 PR 24-NOV-1997; 97US-0066770P.
 PR 24-NOV-1997; 97US-0066772P.
 PR 25-NOV-1997; 97US-0066840P.
 PR 12-DEC-1997; 97US-0069423P.
 PR 04-JUN-1998; 98US-0089025P.
 PR 10-SEP-1998; 98US-0099803P.
 PR 10-SEP-1998; 98WO-US018824.
 PR 14-SEP-1998; 98US-0100262P.
 PR 14-SEP-1998; 98WO-US019177.
 PR 16-SEP-1998; 98WO-US019330.
 PR 17-SEP-1998; 98US-0100858P.
 PR 17-SEP-1998; 98WO-US019437.
 PR 13-OCT-1998; 98US-0104080P.
 PR 20-NOV-1998; 98US-0109304P.
 PR 01-DEC-1998; 98WO-US025108.
 PR 22-DEC-1998; 98US-0113296P.
 PR 07-JUL-1999; 99US-0143048P.
 PR 26-JUL-1999; 99US-0145698P.
 PR 28-JUL-1999; 99US-0146222P.
 PR 08-SEP-1999; 99WO-US020594.
 PR 13-SEP-1999; 99WO-US020944.
 PR 15-SEP-1999; 99WO-US021090.
 PR 15-SEP-1999; 99WO-US021547.
 PR 05-OCT-1999; 99WO-US023089.
 PR 29-NOV-1999; 99WO-US028214.
 PR 30-NOV-1999; 99WO-US028313.
 PR 01-DEC-1999; 99WO-US028301.
 PR 02-DEC-1999; 99WO-US028564.
 PR 16-DEC-1999; 99WO-US028565.
 PR 16-DEC-1999; 99WO-US030095.
 PR 20-DEC-1999; 99WO-US030911.
 PR 20-DEC-1999; 99WO-US030999.
 PR 05-JAN-2000; 2000WO-US000219.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 22-FEB-2000; 2000WO-US004414.
 PR 24-FEB-2000; 2000WO-US005044.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 20-MAR-2000; 2000WO-US007377.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 22-MAY-2000; 2000WO-US014042.

PR 02-JUN-2000; 2000WO-US015264.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 18-SEP-2000; 2000US-00665350.
 XX (GETH) GENENTECH INC.
 PA
 XX Ashkenazi A, Botstein D, Deenoyers L, Eaton DL, Ferrara N, Filvaroff E, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ, Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D, Williams PM, Wood WI;
 XX WPI; 2003-765473/72.
 DR P-PSDB; ADB29462.
 XX
 PT Novel isolated native PRO polypeptide useful for treating Parkinson's disease, enterocolitis, Zollinger-Ellison syndrome gastrointestinal ulceration, Alzheimer's disease, amyotrophic lateral sclerosis, Usher syndrome.
 PT
 XX
 PS Claim 2; Fig 91; 469pp; English.
 XX
 CC The invention discloses isolated PRO secreted/transmembrane polypeptides and the nucleic acid encoding them. The polypeptides can be used to raise antibodies that specifically bind to the PRO polypeptide, for linking a bioactive molecule to a cell expressing a PRO protein and for modulating at least one biological activity of a cell. PRO polypeptides are useful for detecting other PRO polypeptides in a sample and for linking a bioactive molecule to a cell expressing a PRO polypeptide. The PRO polypeptide antibodies are useful for modulating the biological activity of a cell expressing PRO polypeptides. PRO polypeptides are also useful for treating disorders associated with the preservation and maintenance of gastrointestinal mucosa and the repair of acute and chronic mucosal lesions, skin diseases associated with abnormal keratinocyte differentiation (e.g. psoriasis), Parkinson's disease, Alzheimer's disease, amyotrophic lateral sclerosis (ALS), neuropathies and additionally, disease related to uncontrolled cell growth, e.g. cancer. PRO polypeptides also serves as tumour specific antigens which may be exploited as therapeutic targets for anti-tumour drugs, and are also employed therapeutically in vivo for lessening the effects of viral infection. The PRO polypeptides can be also used in assays to determine if it has a role in neurodegenerative diseases or their reversal, as an antithrombotic agent with reduced risk for haemorrhage as compared with heparin, in treating other PRO-associated disorders, in modulating endometrial bleeding angiogenesis, and may also have an effect on kidney tissue. PRO polypeptides and their portions affect the expression of genes which have a role in apoptosis. The polynucleotides are useful in molecular biology including uses as hybridisation probes for cDNA library to isolate the full-length PRO cDNA or to isolate other cDNAs, in chromosome and gene mapping, in the generation of antisense RNA and DNA, for preparing PRO polypeptides, for generating transgenic animals or knockout animals which are useful in the development and screening of therapeutically useful reagents, as probes and for the genetic analysis of individuals with genetic disorders as well as for recombinantly expressing the protein and for chromosome identification. The proteins are useful as molecular marker for protein electrophoresis purposes, as therapeutic agents, for screening compounds to identify those that mimic the PRO polypeptide (agonists) or prevent the effect of the PRO polypeptide (antagonists). The polynucleotides and proteins are useful for tissue typing. PRO antibodies are useful for immunohistochemical staining and/or assay of sample fluids. Anti-PRO antibodies are useful in diagnostic assays for PRO e.g. detecting its expression in specific cells, tissues or serum and for affinity purification of PRO from recombinant cell culture or natural sources. The PRO genes may also be used in gene therapy, particularly for replacing a defective gene. The sequence presented is a gene encoding a PRO polynucleotide of the

SQ Sequence 1100 BP; 225 A; 321 C; 314 G; 240 T; 0 U; 0 Other;
 Query Match 99.1%; Score 1090.6; DB 9; Length 1100;
 Best Local Similarity 99.6%; Pred. No. 4.4e-227;

Matches 1093; Conservative 0; Mismatches 4; Indels 0; Gaps 0;				
Qy	1	CGCGGAGAGAGGCATGGCGCGCGGGCGCGCTGCTGCGCGCTGCTGCTGGCTCG	60	
Db	4	CGCGGAGAGAGGCCATGGCGCGCGGGCGCGCTGCTGCGCGCTGCTGCTGGCTCG	63	
Qy	61	GGCTGGACTCAGGAAGCGGAGTGCAGAGAGCGGCGCGGCTTATCAGAACATCGGCGCG	120	
Db	64	GGCTGGACTCAGGAAGCGGAGTGCAGAGAGCGGCGCGGCTTATCAGAACATCGGCGCG	123	
Qy	121	ACGGGTCATACATCGCGCATCGTGGGTGGAGAGGACGCCGAACCTCGGGGGTGGCCGTG	180	
Db	124	ACGGGTCAATCACATCGCGCATCGTGGGTGGAGAGGACGCCGAACCTCGGGGGTGGCCGTG	183	
Qy	181	GCAGGGAGGCTGCGCCTGTGGGATCCCACTATGCGGAGTGAGCTGTCTCAGCCACCG	240	
Db	184	GCAGGGAGGCTGCGCCTGTGGGATCCCACTATGCGGAGTGAGCTGTCTCAGCCACCG	243	
Qy	241	CTGGGCACTCACGGCGGCGACTGCTTTGAAACCTATAGTAGCTTATGATCCCTCCGG	300	
Db	244	CTGGGCACTCACGGCGGCGACTGCTTTGAAACCTATAGTAGCTTATGATCCCTCCGG	303	
Qy	301	GTGGATGGTCCAGTTTGGCGAGCTGCTTCCATGCGCATCTCTCGAGAGCTCGAGGCTA	360	
Db	304	GTGGATGGTCCAGTTTGGCGAGCTGCTTCCATGCGCATCTCTCGAGAGCTCGAGGCTA	363	
Qy	361	CTACACCCGTACTTCCGTATCGAATATCTATCTGAGCCCTCGCTACTCGGGGAATCACC	420	
Db	364	CTACACCCGTACTTCCGTATCGAATATCTATCTGAGCCCTCGCTACTCGGGGAATCACC	423	
Qy	421	CTATGACATTTGCCCTTGGTGAAGCTGTGCACTGTCACTTACCTAAACACATCCAAGCC	480	
Db	424	CTATGACATTTGCCCTTGGTGAAGCTGTGTGCACCTGTCACTTACCTAAACACATCCAAGCC	483	
Qy	481	CATCTGCTCCAGGCTCCACATTTGAGTTTGAGAACCGGACAGACATGCTGGGTGACTGG	540	
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Db	544	CTGGGGGTACATCAAGAGGATGAGGCATGCCATCTCCACACACCTCTCAGGAAGTTCA	603	
Qy	601	GGTCGCCATCATAAACAACTCTATGTGCAACCACTCTTCTCCTCAAGTACAGTTTCGGCAA	660	
Db	604	GGTCGCCATCATAAACAACTCTATGTGCAACCACTCTTCTCCTCAAGTACAGTTTCGGCAA	663	
Qy	661	GGACATCTTTGGAGACATGTTTTGTGTGCGAATGCCAAGGCGGGAGGATGCTGCTT	720	
Db	664	GGACATCTTTGGAGACATGTTTTGTGTGCGAATGCCAAGGCGGGAGGATGCTGCTT	723	
Qy	721	CGGTGACTCAGGTGGACCTTTGGCTCTAACAGGATGGACTGTGGTATCAGATTGGAGT	780	
Db	724	CGGTGACTCAGGTGGACCTTTGGCTCTAACAGGATGGACTGTGGTATCAGATTGGAGT	783	
Qy	781	CGTGAGCTGGGAGTGGGCTGTGGTGGGCCCAATCGGCCCGGTGTCTACACCAATATCAG	840	
Db	784	CGTGAGCTGGGAGTGGGCTGTGGTGGGCCCAATCGGCCCGGTGTCTACACCAATATCAG	843	
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Db	844	CCAGCACTTTGAGTGGATCCAGAACTGATGGGCCAGAGTGGGATGTCACGACGCC	903	
Qy	901	CTCTGGCGCTACTCTTTTTTCCCTCTTCTCTGGGCTCTCCCACTCTCTGGGGCGGCTCG	960	
Db	904	CTCTGGCGCTACTCTTTTTTCCCTCTTCTCTGGGCTCTCCCACTCTCTGGGGCGGCTCG	963	
Qy	961	AGCCTACCTGAGCCCATGCAAGCTGGGGCCACTGCCAAGTCAGGCCCTGTTCTTCTCTG	1020	
Db	964	AGCCTACCTGAGCCCATGCAAGCTGGGGCCACTGCCAAGTCAGGCCCTGTTCTTCTCTG	1023	
Qy	1021	TCTTGTGTGTAATAAACACATTCAGTGTGATGCTTGAGGGGATTTTTTCAAAAAAAA	1080	
Db	1024	TCTTGTGTGTAATAAACACATTCAGTGTGATGCTTGAGGGGATTTTTTCAAAAAAAA	1083	

Qy	1081	AAAAAAAAAAAAAAAA	1097
Db	1084	AAAAAAAAAAAAAAAA	1100
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ADAI8317	ADAI8317	standard; cDNA; 1100 BP.	
XX	AC	ADA18317;	
XX	DT	20-NOV-2003	(first entry)
XX	XX	Human secreted/transmembrane protein cDNA, #49.	
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XX	KW	mucosal lesion; skin disease; keratinocyte differentiation; psoriasis;	
KW	KW	Parkinson's disease; Alzheimer's disease; amyotrophic lateral sclerosis;	
KW	KW	AUS; neuropathic; cell growth; cancer; tumour; viral infection;	
KW	KW	neurodegenerative disease; antithrombotic agent; haemorrhage;	
KW	KW	endometrial bleeding angiogenesis; kidney tissue; apoptosis; therapeutic;	
KW	KW	tissue typing; immunohistochemical staining; gene therapy; neurotropic;	
XX	XX	neuroprotective; cytostatic; virucide; anticoagulant.	
OS	XX	Homo sapiens.	
XX	XX	US2003039971-A1.	
XX	XX	27-FEB-2003.	
XX	XX	16-JUL-2001; 2001US-00906646.	
XX	XX	17-SEP-1997; 97US-0059113P.	
PR	PR	17-SEP-1997; 97US-0059115P.	
PR	PR	17-SEP-1997; 97US-0059117P.	
PR	PR	17-SEP-1997; 97US-0059119P.	
PR	PR	17-SEP-1997; 97US-0059121P.	
PR	PR	17-SEP-1997; 97US-0059122P.	
PR	PR	17-SEP-1997; 97US-0059184P.	
PR	PR	18-SEP-1997; 97US-0059263P.	
PR	PR	18-SEP-1997; 97US-0059266P.	
PR	PR	15-OCT-1997; 97US-0062125P.	
PR	PR	17-OCT-1997; 97US-0062285P.	
PR	PR	17-OCT-1997; 97US-0062287P.	
PR	PR	21-OCT-1997; 97US-0063486P.	
PR	PR	24-OCT-1997; 97US-0062814P.	
PR	PR	24-OCT-1997; 97US-0062816P.	
PR	PR	24-OCT-1997; 97US-0063045P.	
PR	PR	24-OCT-1997; 97US-0063120P.	
PR	PR	24-OCT-1997; 97US-0063121P.	
PR	PR	24-OCT-1997; 97US-0063127P.	
PR	PR	24-OCT-1997; 97US-0063128P.	
PR	PR	27-OCT-1997; 97US-0063327P.	
PR	PR	27-OCT-1997; 97US-0063329P.	
PR	PR	28-OCT-1997; 97US-0063541P.	
PR	PR	28-OCT-1997; 97US-0063542P.	
PR	PR	28-OCT-1997; 97US-0063544P.	
PR	PR	28-OCT-1997; 97US-0063549P.	
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PR	PR	28-OCT-1997; 97US-0063564P.	
PR	PR	29-OCT-1997; 97US-0063435P.	
PR	PR	29-OCT-1997; 97US-0063704P.	
PR	PR	29-OCT-1997; 97US-0063732P.	
PR	PR	29-OCT-1997; 97US-0063734P.	
PR	PR	29-OCT-1997; 97US-0063735P.	
PR	PR	29-OCT-1997; 97US-0063738P.	
PR	PR	29-OCT-1997; 97US-0064215P.	
PR	PR	31-OCT-1997; 97US-0063870P.	
PR	PR	31-OCT-1997; 97US-0064103P.	
PR	PR	03-NOV-1997; 97US-0064248P.	
PR	PR	07-NOV-1997; 97US-0064809P.	
PR	PR	12-NOV-1997; 97US-0065186P.	


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Db 364 |||||CTACACCGGTTACTTCGTATCGAATATCTATCTGAGCCCTCGTACTCTGGGAAATTCACC 423
QY 421 |||||CTATGACATTCGCTTGGTGAAGCTGTCTGCACTGTCTACCTGTCTACCTAATAACACATCCAGCC 480
Db 424 |||||CTATGACATTCGCTTGGTGAAGCTGTCTGCACTGTCTACCTGTCTACCTAATAACACATCCAGCC 483
QY 481 |||||CATCTGTCTCCAGGCTCCACATTTGAGTTTGAACCGGACAGACTGTCTGGTGACTGG 540
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QY 541 |||||CTGGGGTACATCAAGAGGATGAGGCACTGCGATCTCCCAACCCCTCCAGGAAGTTCA 600
Db 544 |||||CTGGGGTACATCAAGAGGATGAGGCACTGCGATCTCCCAACCCCTCCAGGAAGTTCA 603
QY 601 |||||GGTGGCCATCAATAACAACTCTATGTGCAACCACTCTTCTCAAGTACAGTTTCCGCAA 660
Db 604 |||||GGTGGCCATCAATAACAACTCTATGTGCAACCACTCTTCTCAAGTACAGTTTCCGCAA 663
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Db 664 |||||GGACATCTTTGGAGACATGTTTGTGTGGCAACGCCCCAAGCGGGAAGATGCTGCTT 723
QY 721 |||||CGGTGACTCAGGTGACCCCTTGGCTGTAAAGAGATGGAATGGAATGGAATGGAATGGAAT 780
Db 724 |||||CGGTGACTCAGGTGACCCCTTGGCTGTAAAGAGATGGAATGGAATGGAATGGAATGGAAT 783
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QY 841 |||||CCACCACCTTTGAGTGGATCCAGAAGCTGATGGCCCAAGATGGCATGTCCAGCCAGACCC 900
Db 844 |||||CCACCACCTTTGAGTGGATCCAGAAGCTGATGGCCCAAGATGGCATGTCCAGCCAGACCC 903
QY 901 |||||CTCTGGCCGCTACTCTTTTTCCTCTTCTGTGGCTCTCCCACTCTGTGGGCGCGGTCTG 960
Db 904 |||||CTCTGGCCGCTACTCTTTTTCCTCTTCTGTGGCTCTCCCACTCTGTGGGCGCGGTCTG 963
QY 961 |||||AGCCTACCTGAGCCCATGTCAGCCCTGGGGCCACTGCCAAGTCAGGCCCTGGTCTCTTCTG 1020
Db 964 |||||AGCCTACCTGAGCCCATGTCAGCCCTGGGGCCACTGCCAAGTCAGGCCCTGGTCTCTTCTG 1023
QY 1021 |||||TCTTGTGTGTAATAACACATTCAGTTGATGCTTGCAGGGCATTTTCAAAAAAAA 1080
Db 1024 |||||TCTTGTGTGTAATAACACATTCAGTTGATGCTTGCAGGGCATTTTCAAAAAAAA 1083
QY 1081 |||||AAAAAAAAAAAAAAAA 1097
Db 1084 |||||AAAAAAAAAAAAAAAA 1100
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Search completed: March 4, 2005, 23:13:35
Job time : 683.27 secs